



BID BULLETIN
Addendum No. 2018-01
March 20, 2018

NOTICE: TO ALL PROSPECTIVE BIDDERS

SUBJECT: Modification of the Delivery Period, Total Quantity, Lot Titles, and Specifications in all the attached/associated documents in the Invitation to Bid (ITB), Abstract of Quotation and Technical Specifications: Solicitation No. RSU-07-18

This Bid Bulletin is issued to inform all prospective bidders for the Modification of the Delivery Period, Total Quantity, Lot Titles, and Specifications in all the attached/associated documents in the Invitation to Bid (ITB), Abstract of Quotation and Technical Specifications. Please take notice about this change: Solicitation No. RSU-07-18

FROM:

TO:

DELIVERY PERIOD: 25 DAYS FROM THE ISSUANCE AND ACCEPTANCE OF NTP/P.O.

DELIVERY PERIOD: 120 DAYS FROM THE ISSUANCE AND ACCEPTANCE OF NTP/P.O.

TOTAL QTY: 72

TOTAL QTY: 76

LOT-1: CNC MILLING WITH INTER CHANGEABLE PROGRAMMER & CNC TURNING LATHE WITH INTER CHANGEABLE PROGRAMMER (ABC: PhP8,500,000.00, QTY: 2)

LOT-1: CNC MILLING WITH PROGRAMMER & CNC TURNING LATHE WITH PROGRAMMER (ABC: PhP8,500,000.00, QTY: 2)

UNIT	SPECIFICATION	QTY
unit	CNC milling w/ interchangeable programmer , Work area: travel x/y/z (2000/800/750mm); dist. spindle nose: 0/750mm; no. of axes: 3; motion speed: 50/50/50m/min; clamping area: 2400x750mm; max. Table load: 2200kg; tool change: no. of tool station: 30; max. Tool dia.: 75(125mm) milling spindle: max. Speed: 15000rpm; max. torque: 125n-m;	1
unit	CNC turning lathe w/ inter changeable programmer , Work area: travel x/y/z (160/+40/-30/510mm); bar dia.: 45(51mm); Max. Turning dia.: 300mm; swing over bed: 430mm; rapid motion speed in x/y/z: (30m/min/15m/min/45m/min); max. Speed: 7000 rpm max. Power: 15kw; max. Torque: 100n-m counter spindle: max. Speed: 7000rpm; max. Power: 15kw; max. Torque: 100n-m; tailstock: VDI size: 25; no. of tools: 12; driven tools: 12; max. Speed: 6000rpm; max. Power: 4kw; max. torque: 16n-m	1
TOTAL	QTY	2

UNIT	SPECIFICATION	QTY
unit	CNC milling w/ programmer , Work area: travel x/y/z (300-2000/200-800/55-750mm); dist. spindle nose: 0/750mm; no. of axes: 3; motion speed: 50/50/50m/min; clamping area: 2400x750mm; max. Table load: 2200kg; tool change: no. of tool station: 30; max. Tool dia.: 75(125mm) milling spindle: max. Speed: 15000rpm; max. torque: 125n-m.	1
unit	CNC turning lathe w/ programmer , Work area: travel x/y/z (160/+40/-30/510mm); bar dia.: 45(51mm); Max. Turning dia.: 300mm; swing over bed: 430mm; rapid motion speed in x/y/z: (30m/min/15m/min/45m/min); max. Speed: 7000 rpm max. Power: 15kw; max. Torque: 100n-m counter spindle: max. Speed: 7000rpm; max. Power: 15kw; max. Torque: 100n-m; tailstock: VDI size: 25; no. of tools: 12; driven tools: 12; max. Speed: 6000rpm; max. Power: 4kw; max. torque: 16n-m.	1
TOTAL	QTY	2

LOT-2: REFRIGERATION & AIR CONDITIONING TRAINER (ABC: PhP3,500,000.00, QTY: 1)

LOT-2: CENTRALIZED AIR CONDITIONING TRAINER (ABC: PhP3,500,000.00, QTY: 1)

UNIT	SPECIFICATION	QTY
unit	REFRIGERATION & AIRCONDITIONING TRAINER , Power input: AC220V; ±10% (50HZ) Bench structure: Aluminum iron Refrigerant: Air conditioning (R22); Refrigeration (R134a) Instrument: digital voltmeter and ammeter Safety: short circuit; overload and leakage protection.	1
TOTAL	QTY	1

UNIT	SPECIFICATION	QTY
unit	CENTRALIZED AIRCONDITIONING TRAINER , Power input: AC220-240V; 60Hz. Bench Structure: Aluminum. Refrigerant: R14a or R134a. Instrument: digital voltmeter and ammeter. Safety: short circuit overload, and leakage protection. With actual ducting and cooling capability for 2 rooms.	1
TOTAL	QTY	1



LOT-4: BOILER & STEAM JACKET KETTLE
(ABC: PhP4,500,000.00, QTY: 3)

UNIT	SPECIFICATION	QTY
unit	Boiler , 10 boiler horsepower, diesel fuel burner, vertical fire tubes, complete with safety controls, 4-header, with insulation,	1
unit	Steam jacketed kettle , stainless steel food grade, ¼"thick, with detachable mechanical stirrer, insulated steam lines from header, with drain.	2
TOTAL	QTY	3

LOT-4: BOILER & STEAM JACKET KETTLE
(ABC: PhP4,500,000.00, QTY: 3)

UNIT	SPECIFICATION	QTY
unit	Boiler , 10 boiler horsepower, diesel fuel burner, vertical fire tubes, complete with safety controls, 4-header, with insulation, and with installation .	1
unit	Steam jacketed kettle , stainless steel food grade, ¼"thick, with detachable mechanical stirrer, insulated steam lines from header, with drain, 40 gallons capacity/kettle, with installation .	2
TOTAL	QTY	3

LOT-10: ARDUINO TRAINER (ABC: PhP1,000,000.00, QTY: 1)

UNIT	SPECIFICATION	QTY
unit	<p>ARDUINO TRAINER</p> <ol style="list-style-type: none"> Power Input: AC 110/220V, 50/60Hz, Output: +5V/1.5A, +3.3V/0.5A Control Board, Arduino UNO R3, Core: ATMEGA328P, Digital IO: 14 (D0-D13), Analog IO: 6(A0-A5), PWM Output: 6 (D3, D5, D6, D9, D1, D11), Support AREF pin, Support Tx/Rx pin, Support 12C interface, Support ISP download Programming interface: USB Type-B. Input Module Digital Input 4x4 Key Pad: Touch Button DIP Switch: 8 pin Analog Input Slide Potentiometer: 20KΩ x 2 Joystick x 1 Microphone x 1 Sensor Input CDS Sensor x 1 Temperature & Humidity Sensor x 1 Accelerometer: 3-axis Ultrasonic x 1 Infrared transmitter & receiver x 3. Output Module LED Matrix Display: 8x8 4-Digit 7-Segment Display LED Bar: 10 bit RGB LED x 20 LCD Display: 16x2 (Serial & Parallel) Raly: 5V, 2 sets DC Motor: 5V, 2 sets Step Motor: 12V, 7.5 deg/tick Servo Motor: 4.8V-6V Electromagnetic Buzzer x 2 Communication Module Wi-Fi: ESP8266 x 1 Bluetooth: HC05 x 1 Other Module Solder less Breadboard: 81x62mm, 456 tie points List of Experiments <ul style="list-style-type: none"> Buzzer application: Mono tone output/ Multi tone output / Song playing LED matrix display: Static & dynamic 4-digit 7-segment display: Basic output/ Digital clock Relay control High power LED application: PWM control with slide potentiometer and PC Microphone application: Light detector Classical RGB LED control: Static/Dynamic display Serial RGB LED control: Color control Parallel LCD display control: Static display Serial LCD display control: Display temperature Ultrasonic application: Distance measurement Accelerometer application: Balance detection DC motor application : Speed and direction control 	1

LOT-10: ARDUINO TRAINER (ABC: PhP1,000,000.00, QTY: 5)

UNIT	SPECIFICATION	QTY
unit	<p>ARDUINO TRAINER</p> <ol style="list-style-type: none"> Power Input: AC 110/220V, 50/60Hz, Output: +5V/1.5A, +3.3V/0.5A Control Board, Arduino UNO R3, Core: ATMEGA328P, Digital IO: 14 (D0-D13), Analog IO: 6(A0-A5), PWM Output: 6 (D3, D5, D6, D9, D1, D11), Support AREF pin, Support Tx/Rx pin, Support 12C interface, Support ISP download Programming interface: USB Type-B. Input Module Digital Input 4x4 Key Pad: Touch Button DIP Switch: 8 pin Analog Input Slide Potentiometer: 20KΩ x 2 Joystick x 1 Microphone x 1 Sensor Input CDS Sensor x 1 Temperature & Humidity Sensor x 1 Accelerometer: 3-axis Ultrasonic x 1 Infrared transmitter & receiver x 3. Output Module LED Matrix Display: 8x8 4-Digit 7-Segment Display LED Bar: 10 bit RGB LED x 20 LCD Display: 16x2 (Serial & Parallel) Raly: 5V, 2 sets DC Motor: (5V, 2 sets Step Motor: 12V, 7.5 deg/tick Servo Motor: 4.8V-6V Electromagnetic Buzzer x 2 Communication Module Wi-Fi: ESP8266 x 1 Bluetooth: HC05 x 1 Other Module Solder less Breadboard: 81x62mm, 456 tie points List of Experiments <ul style="list-style-type: none"> Buzzer application: Mono tone output/ Multi tone output / Song playing LED matrix display: Static & dynamic 4-digit 7-segment display: Basic output/ Digital clock Relay control High power LED application: PWM control with slide potentiometer and PC Microphone application: Light detector Classical RGB LED control: Static/Dynamic display Serial RGB LED control: Color control Parallel LCD display control: Static display Serial LCD display control: Display temperature Ultrasonic application: Distance measurement Accelerometer application: Balance detection DC motor application : Speed and direction control 	5



	<ul style="list-style-type: none"> • Step motor application : Unipolar and Bipolar control • Bluetooth application : Connect to mobile phone • Wi-Fi application : Connect to cloud • Infrared application: Line tracer • Servo motor application: Control w/ slide potentiometer and joystick 7. Accessory Experiment manual x1 Software / Source Code CD x 1 AC Power Cord x 1 USB cable (Type-A to Type-B) x 1 Flat cable (5x2 pin) x 1 DuPont wire x 40.		
TOTAL		QTY	1

	<ul style="list-style-type: none"> • Step motor application : Unipolar and Bipolar control • Bluetooth application : Connect to mobile phone • Wi-Fi application : Connect to cloud • Infrared application: Line tracer • Servo motor application: Control w/ slide potentiometer and joystick 7. Accessory Experiment manual x1 Software / Source Code CD x 1 AC Power Cord x 1 USB cable (Type-A to Type-B) x 1 Flat cable (5x2 pin) x 1 DuPont wire x 40.		
TOTAL		QTY	5

LOT-11: RASPBERRY PI TRAINER (ABC: Php1,000,000.00, QTY: 1)

LOT-11: RASPBERRY PI TRAINER (ABC: Php1,000,000.00, QTY: 5)

UNIT	SPECIFICATION	QTY
unit	<u>Raspberry Pi Trainer</u>	1
TOTAL		QTY 1

UNIT	ITEM DESCRIPTION	QTY
unit	<u>Raspberry Pi Trainer</u>	5
TOTAL		QTY 5

LOT-13: SIEVE SHAKER MACHINE & I. S. SIEVE SET (ABC: Php350,000.00, QTY: 3)

LOT-13: SIEVE SHAKER MACHINE & I. S. SIEVE SET (ABC: Php350,000.00, QTY: 3)

UNIT	SPECIFICATION	QTY
unit	<u>Sieve Shaker machine</u> , Motorized with_Built-in Digital Timer	1
unit	<u>I.S. sieve set:</u> , I.S. Sieves 100 mm, 63 mm, 10 mm, 4.75 mm, 2mm, 1mm, 600u, 425u, 300u, 212u, 150u 75u sieves	2
TOTAL		QTY 3

UNIT	SPECIFICATION	QTY
unit	<u>Sieve Shaker machine</u> , Motorized with_Built-in Digital Timer	1
unit	<u>I.S. sieve set:</u> , I.S. Sieves 100 mm, 63 mm, 10 mm, 4.75 mm, 2mm, 1mm, 600u, 425u, 300u, 212u, 150u 75u sieves WITH PAN & COVER.	2
TOTAL		QTY 3

LOT-14: ELECTRONIC THEODOLITE (ABC: Php225,000.00, QTY: 3)

LOT-14: ELECTRONIC THEODOLITE (ABC: Php225,000.00, QTY: 3)

UNIT	SPECIFICATION	QTY
unit	<u>Electronic Theodolite:</u> Angle Measurement: Accuracy - 5", minimum Reading 1"/5"/10". Compensating range: +/- 3'; level parameter: Circular level - 8'/2mm. Plate level: 30"/2mm* Telescope: 30x magnification; field of view - 2.6% min, focus - 1.3m; optical aperture-45mm; length of sleeve-155mm; resolving power-2.5"; stadia ratio - 100	3
TOTAL		QTY 3

UNIT	SPECIFICATION	QTY
unit	<u>Electronic Theodolite:</u> Angle Measurement: Accuracy - 5", minimum Reading 1"/5"/10". Compensating range: +/- 3'; level parameter: Circular level - 8'/2mm. Plate level: 30"/2mm* Telescope: 30x magnification; field of view - 2.6% min, focus - 1.3m; optical aperture-45mm; length of sleeve-155mm; resolving power-2.5"; stadia ratio - 100 WITH TRIPOD & STADIA ROD.	3
TOTAL		QTY 3

LOT-17: PERSONAL COMPUTER WITH ACCESSORIES & A3 PRINTER WITH PRINT MATERIALS (ABC: Php483,000.00, QTY: 13)

LOT-17: PERSONAL COMPUTER WITH ACCESSORIES & A3 PRINTER WITH PRINT MATERIALS (ABC: Php483,000.00, QTY: 13)

UNIT	SPECIFICATION	QTY
unit	<u>Personal Computer with Accessories</u> , Intel Core i7, 4GB RAM, 1TB	10
unit	<u>A3 Printer with print materials</u> , Model: MFC-J3720	3
TOTAL		QTY 13

UNIT	SPECIFICATION	QTY
unit	<u>Personal Computer with Accessories</u> , Intel Core i7, 8GB RAM, 1TB with keyboard, mouse, 29" monitor & AVR.	10
unit	<u>A3 Printer with print materials</u> , with CISS	3
TOTAL		QTY 13

LOT-18: STRUCTURAL ENGINEERING LEARNING CENTER WITH MULTIMEDIA (ABC: Php1,800,000.00, QTY: 1)

LOT-18: STRUCTURAL ENGINEERING LEARNING SYSTEM WITH MULTIMEDIA (ABC: Php1,800,000.00, QTY: 1)

UNIT	SPECIFICATION	QTY
unit	<u>Structural Engineering Learning Center with multimedia</u>	1
TOTAL		QTY 1

UNIT	SPECIFICATION	QTY
unit	<u>Structural Engineering Learning System with multimedia</u>	1
TOTAL		QTY 1



LOT-19: LED TV & DIGITAL CAMERA
(ABC: Php1,078,000.00, QTY: 21)

UNIT	SPECIFICATION	QTY
unit	Classroom LED TV , 50 inch with_swinging mount, Ultra high definition, USB & HDMI ready, with 3 meters HDMI cable.	20
unit	Camera , Digital single lens reflex with standard & lens built-in flash, 12 mega pixels minimum, with camera bag sling and tripod.	1
TOTAL	QTY	21

LOT-19: CLASSROOM SMART TV & CAMERA
(ABC: Php1,078,000.00, QTY: 21)

UNIT	SPECIFICATION	QTY
unit	Classroom Smart TV , 50 inch with_swinging mount, Ultra high definition, USB & HDMI ready, with 3 meters HDMI cable.	20
unit	Camera , Digital single lens reflex with 18-200 lens built-in flash, 12 mega pixels minimum, with camera bag sling and tripod.	1
TOTAL	QTY	21

Be advised that this addendum is issued to modify or amend the Modification of the Delivery Period, Total Quantity, Lot Titles, and Specifications in all the attached/associated documents in the Invitation to Bid (ITB), Abstract of Quotation and Technical Specifications. This shall form an integral part of the Bid Documents.

For guidance and information of all concerned.

Received by the Bidder:


 Prof. MARIO A. FETALVER, Jr., Ph. D.
 BAC Chairperson

 Date: _____