Republic of the Philippines
University of the Philippines Mindanao
Mintal, Tugbok District, Davao City
Tel No. (082) 293-0016 local 103 Fax No. 293-0185

Date: 30 March 2017

ADDENDUM NO. _01-2017_
Name of Contract: **Supply of IT Equipment**

This Addendum is issued for the following:

1. The items are now grouped into twenty three (23) lots with a total approved budget of P23,553,900.00 per attached summary;

2. The Technical Specifications of some items were revised;

3. Proposed Design for the Department of Architecture Computer Laboratory Tables of Lot 10, and

4. Sample design of the Computer Table of Lot 11 item No. 2.

5. Sample design of the Computer Table of Lot 12 item No. 2.

6. Sample design of the Laptop Storage Cabinet of Lot 22 item No. 3

For guidance and information of all concerned.

Prof. MARIA STELLA R. SALAZAR
Chair, Bids & Awards Committee

Supply of IT Equipment

Lot #	Lot Name	Approved Budget
Lot 1	Computers & accessories	5,149,500.00
Lot 2	GPS	310,000.00
Lot 3	Mobile Tablets	365,000.00
Lot 4	Physics Equipment	200,000.00
Lot 5	Printer	322,000.00
Lot 6	Printer – Large Format	1,055,000.00
Lot 7	Printer – 3D	360,000.00
Lot 8	Presentation Equipment	1,285,000.00
Lot 9	Server	888,000.00
Lot 10	Architecture Laboratory	4,668,000.00
Lot 11	Communication Arts Laboratory	2,254,000.00
Lot 12	Econometrics Laboratory	1,390,000.00
Lot 13	Software – Citation Software	15,000.00
Lot 14	Software – Office Use	438,000.00
Lot 15	Software – Plagiarism Detection	100,000.00
Lot 16	Software – Data Analysis	340,000.00
Lot 17	Software – Video Editing	15,000.00
Lot 18	Software – Mathlab	50,000.00
Lot 19	Software – STATA	490,000.00
Lot 20	SOM IT Equipment & Peripherals	800,400.00
Lot 21	Laptop	2,935,000.00
Lot 22	Electronic Devices	124,000.00
Lot 23	Audience Clicker	60,000.00
TOTAL		**23,553,900.00**

TECHNICAL SPECIFICATIONS

Item No.	DESCRIPTION	QUANTITY	Statement of Compliance
	Lot 1- Computers & accessories		
1	512 GB USB 3.0 Flash/Thumb drive or 512 GB SSD Portable Drive USB 3.0	2	
2	**Branded Desktop Computers** *Usage: Office productivity* *Processor: at least Intel i3 Processor* *Memory: at least 4GB* *Hard drive: at least 500GB HDD* *Screen size: approx. 21"* *Display: LED* *Resolution: FHD* *Audio: High definition* *Operating System: Windows 10 64bit* *Integrated LAN: fast ethernet, WLAN+Bluetooth 4.0* *Ports: Full Size HDMITM 1.4a* 　　*(2) USB 3.0* 　　*(1) USB 2.0* 　　*(1) VGA* *Super multi-drive DVD, card reader* *Battery: 48 Whr* *Accessories: USB speakers, Mouse, keyboard, UPS*	1	

3	**Branded Desktop Computers**	2	
	Usage: Office productivity		
	Processor: at least Intel i3 Processor		
	Memory: at least 4GB		
	Hard drive: at least 500GB HDD		
	Screen size: approx. 21"		
	Display: LED		
	Resolution: FHD		
	Audio: High definition		
	Operating System: Windows 10 64bit		
	Integrated LAN: fast ethernet, WLAN+Bluetooth 4.0		
	Ports: Full Size HDMITM 1.4a		
	(2) USB 3.0		
	(1) USB 2.0		
	(1) VGA		
	Super multi-drive DVD, card reader		
	Battery: 48 Whr		
	Accessories: USB speakers, Mouse, keyboard, UPS		
4	**Branded Desktop Computers**	1	
	Usage: Office productivity		
	Processor: at least Intel i3 Processor		
	Memory: at least 4GB		
	Hard drive: at least 500GB HDD		
	Screen size: approx. 21"		
	Display: LED		
	Resolution: FHD		
	Audio: High definition		
	Operating System: Windows 10 64bit		
	Integrated LAN: fast ethernet, WLAN+Bluetooth 4.0		
	Ports: Full Size HDMITM 1.4a		
	(2) USB 3.0		
	(1) USB 2.0		
	(1) VGA		
	Super multi-drive DVD, card reader		
	Battery: 48 Whr		
	Accessories: USB speakers, Mouse, keyboard, UPS		

5	**Wireless Network access point** specifications: 3x3 MIMO; 2.4GHz (450 Mbps max rate) & 5GHz (1.3 Gbps max rate) radios; 6 integrated omni-directional antennas; virtual controller technology; must be compatible with ARUBA Controller 7205	1	

6	**All-in-One Desktop computer set**
	 At least 22" display
	Intel Core i7-4700 series or higher
	   Intel HD graphics or with dedicated video card 4GB or better, 16GB DDR3-1600,
	   2xPCS 1TB HDD,
	   built-in 7in1 memory card reader
	   Optical drive: ultra slim tray Super multi DVD burner
	Software inclusion: Microsoft Office Home and business 2016 edition & internet security/virus scanner
	OS: Licensed updated Windows
	With 500VA Single Phase UPS
		19	

7	**Branded Desktop Computers**
	Usage: Office productivity
	Processor: at least Intel i7 Processor
	Memory: at least 4GB
	Hard drive: at least 500GB HDD
	Screen size: approx. 21"
	Display: LED
	Resolution: FHD
	Audio: High definition
	Operating System: Windows 10 64bit
	Integrated LAN: fast ethernet, WLAN+Bluetooth 4.0
	Ports: Full Size HDMITM 1.4a
	    (2) USB 3.0
	    (1) USB 2.0
	    (1) VGA
	Super multi-drive DVD, card reader
	Battery: 48 Whr
	Accessories: USB speakers, Mouse, keyboard, UPS
		20	

#	Item	Qty	
8	**All-in-One Computer** **Display: 21.5 inch** 3.1GHz quad-core Intel i5 turbo boost up to 3.6GHz 8GB Onboard memory (configurable to 16GB) 1TB(5400 rpm) hard drive Intel Iris Pro Graphics 6200+ Retina 4K Display 4096x2304 resolution Licensed Software inclusion: Updated Microsoft Office Home and Business & internet security/virus scanner	9	
9	**External Hard Drive** 1TB with protective casing	8	
10	**External Hard Drive** 4TB with protective casing	4	
11	**External Hard Drive** 4TB with protective casing (for storage server)	5	
12	**Power banks** At least 50000mAH with protective casing	4	

13	**Storage Server**	1	
	CPU		
	CPU Model Intel Atom C2538		
	CPU Architecture 64-bit		
	CPU Frequency Quad Core 2.4 GHz		
	Hardware Encryption Engine (AES-NI)		
	Memory		
	System Memory 2 GB DDR3		
	Memory Module Pre-installed 2 GB x 1		
	Total Memory Slots 2		
	Memory Expandable up to 6 GB (2 GB + 4 GB)		
	Storage Atleast 10 TB (10 TB per bay inorder to maximize capacity)		
	Drive Bay(s) 5		
	Maximum Drive Bays with Expansion Unit 15		
	Compatible Drive Type* (See all supported drives) 3.5" SATA III / SATA II HDD 2.5" SATA III / SATA II HDD 2.5" SATA III / SATA II SSD		
	Maximum Internal Raw Capacity 50 TB (10 TB HDD x 5) (Capacity may vary by RAID types)		
	Maximum Raw Capacity with Expansion Units 150 TB (10 TB HDD x 15) (Capacity may vary by RAID types)		
	Maximum Single Volume Size 108 TB		
	Hot Swappable Drive		
	External Ports		
	USB 3.0 Port 4		
	eSATA Port 2		

	(Item 13 specification continuation) File System Internal Drives Btrfs EXT4 External Drives Btrfs EXT4 EXT3 FAT NTFS HFS+ exFAT* RJ-45 1GbE LAN Port 4 (with Link Aggregation / Failover support) Wake on LAN/WAN System Fan 80 mm x 80 mm x 2 pcs Fan Speed Mode Cool Mode Quiet Mode Easy Replacement System Fan Wireless (dongle or bulit-in) Power Recovery Scheduled Power On/Off SSD Support Support RAID File Sharing Capacity Maximum Local User Accounts 2048 Maximum Local Groups 256 Maximum Shared Folder 512 Maximum Shared Folder Sync Tasks 8 Maximum Concurrent CIFS/AFP/FTP Connections 512 Windows Access Control List (ACL) Integration Warranty 3 Years		
14	**UPS** At least 500 VA Single phase AVR	9	

15	Branded Workstation Computers	5	
	Rackable minitower		
	At least Windows 8 Professional 64 bit		
	2x Physical CPU units; each CPU at least 6 cores, 12 threads;		
	at least 2.1 GHz clock speed; at least 2.6 GHz max turbo frequency; at least 15 MB cache; Xeon Family or better		
	Chipset: C602 Chipset or better		
	Cooling Requirements: Liquid Cooling Solution		
	Graphics: FirePro V3900 equivalent or better; at least 1GB video memory; with at least Dual-Link DVI and DisplayPort outputs		
	Memory: at least 32GB DDR3-1866 (4x8GB) Unbuffered RAM distributed evenly across 8 channels; at least 16 DIMM slots, up to 512GB, 8-channel DDR3, up to 1866MHz, 4 channels per CPU		
	Drive Controllers: SATA 3.0; RAID 0		
	Hard Drive: at least 1TB 7200RPM SATA Hard drives (with SSD if possible)		
	Optical Drive; at least 16x SUper Multi DVDRW SATA Optical Drive		
	Audio: at least integrated HD ALC262 Audio		
	Network: at least dual integrated GbE LAN; TPM 1.2 Controller		
	Ports:		
	- Front: at least 2 USB 3.0, 1 USB 2.0, 1 IEEE 1394a standard, 1 microphone in, 1 headphone out		
	- Rear: at least 2 USB 3.0, 4 USB 2.0, 1 IEEE 1394a, 1 audio in, 1 audio out, 1 microphone in, 2 PS/2, 2 RJ-45 to inegrated Gigabit LAN, 1 serial		
	- Internal: at least 6 USB 2.0 ports available by three 2x5 headers		
	Keyboard: USB keyboard		
	Mouse: USB Optical Mouse		
	Display: 30" Dual Monitor + Arm Display equivalent or better; support DVI/DisplayPort intputs		
	With UPS		
	Accessories: DP-toDVI display adapter		
	Warranty: at least three years warranty		
	LOT 2- GPS		

1	GPS 272x480 pixels display touch screen water resistant with battery (16-22 hrs life) 200mAH high speed USB and NMEA D183 compatible 8MP camera with autofocus and auto-geotagging electronic compass 3GB memory Micro-SD slot automatic routing 4000 waypoints	3	
2	GPS Handheld high sensitivity GPS device with 3-axis compass, barometric altimeter, bluetooth, sunlight-readable, 2.6" 160x240 color display, 4GB memory, dual battery system, waterproof	4	
3	GPS device 8 MP camera, compatible with several mounts, dual orientation, wireless communication, electronic compass, waterproof.	2	
	LOT 3-Mobile Tablets		

1	Tablet PC	1	

	10 units Android OS Tablet PC
	
	      Minimum Specifications: Intel Atom x3-C3230 Quad-Core 64bit Processor / 2GB Ram / 16GB eMMC Storage / 7" IPS WXGA (1280x800) LED Display / 10 fingers multi touch screen / 802.11bgn WiFi + BT / 2MP Front, 8MP Rear Camera with Auto Focus / Micro SD Card Reader / Micro SIM Slot / Android 5.0
	
	10 units Windows OS Tablet PC
	
	      Minimum Specifications: Colors: Black / 5mm ultra-thin form factor / Mechanical keys for rapid typing / Backlit keys Function keys (F1-F12), Windows shortcut keys, media controls, and touchpad for easy navigation / Doubles as screen protector
	
	5 units iOS Tablet PC
	
	      Minimum Specifications: Internal Storage:iOS 7 or latest, 9.7 inch in size, at least 16GB internal storage, Wifi Connectivity, 1 GB RAM, with accessories (e.g. power adapter, lightning to USB cable)		

2	Android Tablet PC	2	
	Minimum Specifications:		
	Operating System: Android 4.4		
	Display: 8" LED Backlight WXGA (1280x800) Screen,		
	IPS Panel: 10 finger multi-touch support, Anti-fingerprint coating,		
	CPU: Intel® Atom™ Z3530 Quad-Core, up to 1.33 GHz, 64bit		
	Memory: 2GB*1, Storage: 16GB eMMC *1		
	HSPA+ UL:5.76 Mbps/DL:42 Mbps		
	3G : WCDMA : 850/900/1900/2100		
	2G : EDGE/GSM : 850/900/1800/1900,		
	Wireless Data Network: WLAN802.11 b/g/n		
	Bluetooth V4.0, Support Miracast		
	Camera: 2 MP Front Camera, 5 MP Rear Camera with Auto focus(720p Video Recording)		
	Audio: Stereo Speakers with SonicMaster technology		
	Interface:		
	•1 × 2-in-1 Audio Jack (Headphone / Mic-in)		
	•1 × Micro USB		
	•1 × Micro SD Card Reader,up to 64GB		
	•2 × Micro SIM card slot(Dual SIM SKU)*4		
	Sensor: G-Sensor / Proximity / Light sensor / E-compass / Hall sensor		
	Battery: 12 hours battery life; 15.2Wh Li-polymer Battery *3		
	Talk Time: 21 hours(3G)		
	Navigation: GPS, GLONASS & AGPS		
	Color: Gold - K016-1G047A / Black - K016-1A075A		
	Dimensions: 120 x 214 x 8.9 mm (WxDxH)		
	Weight: 310 g		
3	IOS Tablet	2	
	Specifications: Internal Storage:16GB / 1GB RAM / iOS 7.0.3 / Apple A7 Dual-core 1.3GHz / 7.9-inch Retina LED-backlit IPS LCD capacitive touchscreen with Oleophobic Coating / 5MP Rear & 1.2 Front		
	LOT 4 - Physics Equipment		

1	Physics Equipment	1	
	3 sets motion sensor with minimum range: 0.15 meters		
	maximum range: 8 meters		
	resolution: 1 mm		
	transducer rotation: 360 degrees		
	cable length: 1.8 meters		
	1 set Picket Fence with use for conducting free fall experiments, the distance from the leading edge of each black bar to the leading edge of the next black bar is 5.0 cm; it has 8 black bars and is 40 cm long		
	4 sets 50N Force Sensor with force range: -50N to +50N		
	resolution: 0.03N or 3.1grams		
	zero(Tare) function:Push-button		
	Force overload protection: mechanical stop prevents forces of more than 50N from damaging the sensor 10 pairs positive/negative banana patch plugs, cables and wires connectors 3 meters in length each, 5 pcs. electrical multi-tester: analog (Samwa brand), 4 pcs. electrical multi-tester: digital-type, 3 pcs. resistance box, 100 pcs. assorted resistors (color-coded), 100 pcs. led bulb assorted colors, 50 pcs. assorted capacitors with maximum voltage of 25V, 10 pcs. 9-volts rechargeable batteries, 20 pcs.9-volts disposal batteries, 2 pcs. battery charger for 9-volts battery, 10 pcs. conducting paper for mapping equipotential lines, 100 pcs. alligator clips connectors (assorted sizes), 50 pcs. banana patch cord connector, 10 pcs. positive/negative replacement probes for multi-testers, 5 pcs. tape measures (30 meter long),		
	6 pcs. meter sticks (plastic), 10 pcs.foot rule (metal and plastic), 10 pcs. protractors (plastics), 30 meters assorted size electrical wires (solid copper)		
	Pin configuration: 8-pin DIN plug		
	Mounts on standard 12.7mm support rods		

	(Physics Equipment continuation:) 2 Projectile launcher (mini launcher) set with range: 0.5, 1, 2m launch angle: 0 t +90o and 0 to -45o launcher length: 18cm includes: launcher base, loading rod, 2-D collision accessory, projectile balls, safety glasses, and manual 1 set friction block with wooden friction block has felt on two sides, so frictional coefficients for felt or wood can be measured dimensions: 13cm x 5cm x 1.7cm approximate mass: 110g 3 sets vernier caliper with metric/English calipers (18cm/6in.) and have an expanded vernier scale of 20 divisions 3 sets micrometer caliper with measurements from 0 to 25 mm with 0.1 mm resolution 5 sets smart pulley (super pulley) with low friction: dual precision ball-bearings lightweight: the sheave is only 5.5grams precision dimensions: precision spacing of 10 spokes 4 sets mass and hanger set (hanging masses) with features precision 5 gram mass hangers with steel posts and each hanger can hold up to 50g includes: four masses (5 g each) ±2% brass masses: ±1% 3x100g, 3x50g, 6x20g aluminum masses: ±1% 3x2g, 3x1g, 3x0.5g molded storage case 4 sets mass set with hook (hooked mass set) with convenient when heavier masses (up to 2.1kg) are required includes molded mass holder and masses (1x1000g, 1x500g, 1x100g, 1x50g, 1x10g, 2x200g and 2x20g).		
	Lot 5-Printer		
1	**Printer** 24 pins 136 columns dot matrix printer Carbon copies: 5+1 original Printing resolution: 360x180dpi Interfaces: USB	1	

2	**Multifunction Printer**	1	
	Printing Method: PrecisionCore printhead		
	Nozzle Configuration: 400 Nozzles Black, 128 Nozzles per Color		
	Minimum Droplet Size: 3.3 pl, With Variable-Sized Droplet Technology		
	Ink Technology: Dye Ink		
	Print Direction: Bi-Directional printing, Uni-directional printing		
	Printing Resolution: 4,800 x 1,200 DPI		
	All-in-One Functions: Print, Scan, Copy		
	Printing Speed		
	Max Black Draft Text : 33 ppm, 20ppm (black/color)		
	ISO 24734, A4: Approx 13.7ipm / 7.3ipm (black/color)		
	ISO 24734, A4: Approx 6.5ipm / 4.5ipm (black/color)		
	Photo Default 10 x 15cm / 4 x 6" : approx 69 sec per photo (w/ border)		
	Automatic 2 sided printing: YES		
	Copy Speed		
	ISO 29183, A4, simplex: approx 11 sec(black) 5.5ipm (colour)		
	Fax Function		
	Fax Features: PC Fax (Transmission / Receive), Automatic redial, Address book, Group Dial,		
	Delay Send, Broadcast Fax (Mono Only)		
	Interface: USB 2.0; Ethernet: 100Base-Tx / 10Base-T; Network: Wi-Fi IEEE 802.11b/g/n, Wi-fi Direct		
	Mobile and Cloud Printing		
	LCD Screen: 2.2" Mono LCD		
3	**Printer**	7	
	Colored Inkjet with continuous ink and replaceable cartridge		

4	Wide Format Printer for Tabloid (11x17"), Photo and Graphic printing Supports Microsoft Windows and Apple Mac Maximum print resolution is 5,760 x 1,440 dpi. Copy speed is rated at 12 (black)/6.2 (color) ppm; copy features include: 1-99 copies, fit to page, automatic reduction and enlargement (25–400%), adjustable copy density. Includes: installation and training, At least 1 year warranty	1	
5	**Multifunction Colored Laser Printer** Specifications Type: Colored Multifunction Laser Printer/Copier Functions: Print, copy, scan With touch screen colored LCD panel Resolution: (black and colored) 600 dpi quality Processor Speed: at least 800MHz Cartridges: 1 black, 1 cyan, 1 magenta, 1 yellow Print Speed (black/colored): Up to 19 pages per minute Input capacity: 250 sheet universal cassette Interface: USB, Fast Ethernet Memory: 256MB With installer/user guide With additional set of cartridges (1 black, 1cyan, 1magenta, 1yellow) Compatible with Windows XP and higher versions	1	
	Lot 6-Printer – Large Format		
1	**Plotter – black and coloured** 36-in (914-mm) printer specifications Memory, standard 1GB Power and operating requirements Input tray: A4, A3 Manual feed: A2, A1, A0 Operating temperature range: 5-40°C	2	

2	**Large Format Printer** Enhanced resolution: 9600 dpi Optical resolution: 1200 dpi Should be able to print 6ft width Function:Print Includes: Installation and training, at least 1 year warranty	1	
3	**Printer, A3** Colour inkjet multifunction printer Functions: A3 print, A4 scan/copy/fax, PC fax, direct photo print, A4 2-sided print, wired/wireless networking with touch screen colored LCD Panel	1	
4	**Multifunction Large Format Printer (Copy/Print/Scan)** Enhanced resolution: 9600 dpi Optical resolution: 1200 dpi Scan speed 3 color: 15 cm/sec (6in/sec) Grayscale: 33 cm/sec (13 in/sc) Max scan size: 0.91 x 26 m (36 x 1024 in); 0.6 x 37.9 m (24 x 1491 in); 0.3 x 75.8 (12 x 2991 in) Line drawings: 21 sec/page on A1/D, 120 A1/D prints per hour, Print resolution Up to 2400 x 1200 Optimized dpiScan speed Color: up to 6.35 cm/sec (2.5 in/sec) ,Standard sheets: A4, A3, A2, A1, A0 (A, B, C, D, E) Grayscale: up to 19.05 cm/sec (7.5 in/sec) Scan/ copy: resolution Up to 600 dpi Max scan width: 1067 mm (42 in) supported file formats PDF, TIFF, JPEG, JPE Copy Features: enlargement: 25 to 400% Maximum copies Up to 99 copies Data capture: 48bit Color, 16bit mono Processor Speed: at least 800MHzLine Applications: Line drawings, Renderings, Presentations, Maps, Orthophotos Memory 128 GB (file processing), 500 GB hard disk	1	
	Lot 7- Printer – 3D		

1	**Printer 2+ 3D** Size (LxWxH cm): 44x44x58 cm Layer resolution: max up to 20 microns or 0.02mm Print speed(black/colored): up to 19pages/minute Connectivity: LCD display control SD card support USB printing direct 1 year warranty	2	
	Lot 8-Presentation Equipment		

1	**Document Camera**
	Usage: Laboratory / Live demo
	Resolution: Full HD
	Sensor: 1 / 2.7" CMOS Sensor
	Zoom: 12x optical
	Focus: Auto
	Image Freeze capable
	PC free usage
	Internal memory: 1GB
	With SD card
	Accessories:
	    Power adapter
	    Carrying case
	    User guide
		5	