

## ANNEX "A"

### *Section VI. Schedule of Requirements*

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery to the project site.

Item No.	Description	Qty.	Total	Delivered, Weeks/Months
				<i>Please refer to the Technical Specifications (Section VII)</i>
<b>1</b>	➤ <b>DESKTOP COMPUTER</b>			
	<p><i>End-user: Electrical Engineering (6) Mechanical (7) Puntod (10) Telin (2) HRTM (13)</i></p> <p><b>Specifications:</b>            Processor: Intel Core i3-7100 Processor (3M Cache, 3.90 GHz)            Memory: 4GB DDR4 2133MHz            Hard Drive: 1 TB 3.5-inch 7200 RPM            Optical Drive: 8X Super-Multi drive, 9.0 mm slim, tray-load            Graphics: Integrated Intel HD Graphics            Audio: Integrated high-definition, 5.1-channel surround sound            Networking: 802.11ac/a/b/g/n wireless LAN and Bluetooth® 4.0 LE            Front I/O Ports: Front/Side I/O connectors reader: Yes            Audio jack(s): 2            USB 3.0 port(s): 2            Rear I/O Ports: HDMI port(s): 2 (out)            LAN port(s): 1            Audio jack(s): 3            USB 2.0 port(s): 4            USB 3.0 port(s): 1            Accessories: Wireless keyboard and mouse</p> <p>Speakers: USB Speakers            Operating System: Win 10 SL 64 Bit            Monitor / Screen : 21.5" KA220HQ Monitor            Warranty: 1 year warranty on parts and labor</p>	38 units	38 units	<b>45 CD</b>
	<p><i>End-user: Computer Engineering (10) Puntod (5) Telin (25) UQAO (1) AREC (1) CONFOR (1)</i></p> <p><b>Specifications:</b> Form Factor : 16L Tower + Monitor Bundle            Processor: Intel Core i3-8100 Processor (6M Cache, 3.60 GHz)            Memory: 8GB DDR4 2666 MHz UDIMM            Storage: 1TB 3.5-inch 7200 RPM            Optical Drive: 8X DVD-Writer, 9.0 mm slim</p>	43 units	43 units	<b>45 CD</b>

	<p>Graphics: NVIDIA GeForce GT 730 with 2 GB of DDR3 (supporting: DVI, HDMI)  Operating System: Win 10 Home  Display: Size: 21.5""  Input: VGA only Max Res.: 1920 x 1080 @ 60 Hz  Technology: TN  Colors: 16.7million, Glare: None  Response Time: 5ms (G to G)"  Warranty:1 Year Parts - 1 Year Labor Only (1-1-0 )</p>			
	<p>End-user: Drafting (Mr. Tahil)  <b>Specifications:</b> Intel Core i5-8400/8GB/1TB/2GB GT1030/Win10 w/ 24-in Monitor</p>	1 unit	1 unit	45 CD
2	➤ <b>LAPTOP</b>			
	<p>End-user: ITSO  <b>Specifications:</b> Processor: Intel Core i7-8550U (1.8GHz), Memory: 8GB LPDDR3-2133 SDRAM (onboard), Storage: 360 GB Pcle NVMe M.2 SSD, Optical Drive: NO ODD, Operating System: Windows 10, Battery: 4-cel, 53.2 Wh Li-ion polymer, Display: 13.3" diagonal FHD IPS BrightView micro-edge, WLED-backlit edge-to-edge glass (1920x 1080), Graphics: NVIDIA GeForce MX150 (2GB GDDR5 dedicated), Connectivity: Intel 802.11b/g/n/ac (2x2) Wi-Fi and Bluetooth 4.2 Combo, Audio: Bang &amp; Olufsen; Quad speakers; Audio Boost 2.0</p>	1 unit	1 unit	45 CD
	<p>End-user: Mechanical Eng'g  <b>Specifications:</b>  Processor: Intel Core i3-7100U Processor (3M Cache, 2.40 GHz)  Memory: 4GB of DDR4 system memory, upgradable to 32 GB using two soDIMM modules  Storage : 1TB SATA HDD  Display : 14 HD 1366 x 768 resolution, high-brightness Crystal LED backlit TFT LCD 16:9 aspect ratio Ultra-slim design Mercury free, environment friendly  Graphics: NVIDIA GeForce MX150 with 2 GB of dedicated GDDR5 VRAM,  Optical Drive: DVD Super Multi Burner  Wireless: WLAN 802.11a/b/g/n/ac wireless LAN Operates at 2.4 GHz and 5 GHz 1x1 MU-MIMO technology WPAN Bluetooth 4.1 LAN Gigabit Ethernet, Wake-on-LAN ready  Operating System: Windows 10 Home  I/O Port : Two USB 3.0 ports with one featuring power-off USB charging USB 2.0 port SD Card reader Ethernet (RJ-45) port HDMI port with HDCP support External display (VGA) port 3.5 mm headphone/speaker jack, supporting headsets with built-in microphone</p>	2 units	2 units	45 CD
	<p>End-user: Computer Eng'g  <b>Specifications:</b></p>	3 units	3 units	

	<p>Processor: Intel Core i5 8250U Processor  Operating System: Windows 10 Home  Chipset: Integrated Intel CPU  Memory: 4GB DDR4 2400MHz SDRAM  Display: 15.6" (16:9) LED backlit HD Anti-Glare Panel with 45%  Storage: Hard Drives: 1TB 5400RPM SATA HDD</p>			45 CD
	<p><i>End-user: DIT (Garzon, Orais, Calope)</i>  <b>Specifications:</b> Processor: Intel Core i3-7020U Processor (3M Cache, 2.30 GHz)  Operating System: Windows 10 Home  Memory: 4GB DDR4 2400MHz SDRAM  Display: 14.0" (16:9) LED backlit HD (1366x768) 60Hz Anti-Glare Panel with 45%  Dimensions: 328 x 246 x 21.9 mm (WxDxH)  Weight: 1.5 kg with Battery</p>	3 units	3 units	45 CD
	<p><i>End-user: Food Prep. &amp; Service Tech. (Cejas, Baclayon)</i>  <b>Specifications:</b> Processor: Intel Core i3-7020U Processor (3M Cache, 2.30 GHz)  Operating System: Windows 10 Home  Memory: 4GB DDR4 2400MHz SDRAM  Display: 14.0" (16:9) LED backlit HD (1366x768) 60Hz Anti-Glare Panel with 45%  Dimensions: 328 x 246 x 21.9 mm (WxDxH)  Weight: 1.5 kg with Battery</p>	2 units	2 units	45 CD
	<p><i>End-user: HRMO</i>  <b>Specifications:</b>  Intel Core i3 6006U Processor  Operating System: Windows Home  Chipset: Integrated Intel CPU  Memory: 4GB DDR4  Display: 15.6" (16:9) LED backlit FHD (1920x1080) 60Hz Anti-Glare Panel with 45% NTSC  Graphic: nVidia MX110 2GB VRAM  Storage: Hard Drives: 1TB 5400RPM SATA HDD  Keyboard: Chiclet Keyboard  Card Reader: Multi-format card reader  WebCam: VGA Web Camera  Networking: Wi-Fi: integrated 802.11b/g/n  Bluetooth: Built-in Bluetooth V4.2  Interface: 1x COMBO audio jack, 1 x Type C USB3.0 (USB3.1 GEN1), 1 x Type A USB3.0 (USB3.1 GEN1), 2 x USB 2.0 port(s), 1 x HDMI  Audio: Built-in Stereo 2 W Speakers and Microphone  Battery: 3 Cells 33 Whrs Battery  Power Adapter: Plug Type: 4(mm)  Output: 19V DC, 3.42 A, 65W  Input: 100-240V AC, 50/60Hz universal  Dimensions: 365x266x21.9m (WxDxH)  Weight: 1.68kg.</p>	1 unit	1 unit	45 CD
	<p><i>End-user: BOR</i></p>	1 unit	1 unit	

	<p><b>Specifications:</b> 14-in HD Intel® Pentium® Silver Quad-core N5000/4GB/500GB/Win10  Operating System: Windows 10 Home  Processor: Intel® Pentium® Silver N5000 1.10 GHz Processor (4M Cache, up to 2.70 GHz)  Memory: 4GB DDR4, Up to 8 GB (maximum)  Card Reader: SD Card  Optical Drive: NO ODD  Storage: 500 GB hard drive  Screen: 14" HD (1366 x 768) resolution  Graphics: Intel® UHD Graphics 605  Connectivity: 802.11ac wireless LAN/Gigabit LAN  Audio &amp; Video: 640 x 480 webcam  Microphone: 2 x Speaker, 300 Kilopixel (Front camera)  I/O Ports: 1x USB 3.0, 2x USB 2.0  Network (RJ-45): HDMI  Output/Input Devices: TouchPad  Battery: 2-cell 4810 mAh Li-Polymer  Adapter: 45 W  Dimensions: 343 mm x 245 mm x 19.95 mm  Weight: 1.65 kg</p>			45 CD
3	➤ <b>PINTER</b>			
	<p><i>End-user: Printer (InduTech-OJT , Medical/Dental, DIT, ITSO, CAFES(2))</i>  Specifications: Printer Type: Print, Scan, Copy  Photo Default - 10 x 15 cm / 4 x 6 " : Approx. 69 sec per photo (Border) / 90 sec per photo (Borderless) *1  Draft, A4 (Black / Colour): Up to 33 ppm / 15 ppm *1  ISO 24734, A4 Simplex (Black / Colour): Up to 10 ipm / 5.0 ipm *1  First Page Out Time from Ready Mode (Black / Colour): Approx. 10 sec / 16 sec *1  Copy Speed:  Copy Quality: Colour / Black-and-White; Draft / Standard  Maximum Copies from Standalone: 20 copies  Maximum Copy Size: A4, Letter  ISO 29183, A4, Simplex (Black / Colour): Up to 7.0 ipm / 1.7 ipm  Max Copy Resolution: 300 x 300 dpi</p>	6 units	6 units	45 CD
	<p><i>End-user: BOR</i>  <b>Specifications:</b>  Nozzle Configuration: 180 Nozzles Black, 59 Nozzles per Color  Minimum Droplet Size: 3 pl, With Variable-Sized Droplet Technology  Ink Technology: Dye Ink  Printing Resolution: 5,760 x 1,440 DPI  Application: Home, Home Office  All-in-One Functions: Print, Scan, Copy  <b>PRINT</b>  Printing Speed ISO/IEC 24734: 10 pages/min Monochrome, 5 pages/min Colour</p>	1 unit	1 unit	45 CD

	<p>Printing Speed: 15 pages/min Colour (plain paper 75 g/m<sup>2</sup>), 69 Seconds per 10 x 15 cm photo ( Premium Glossy Photo Paper), 33 pages/min Monochrome (plain paper 75 g/m<sup>2</sup>)</p> <p>GENERAL</p> <p>Energy Use: 3.9 Watt (ready), 0.2 Watt (Power off), ENERGY STAR<sup>®</sup> qualified, 12 Watt (standalone copying, ISO/IEC 24712 pattern), 0.4 Watt (sleep mode)</p> <p>Supply Voltage: AC 220 V - 240 V</p> <p>Noise Level: 5.2 B (A) with Premium Glossy Photo Paper / Photo RPM mode - 39 dB (A) with Premium Glossy Photo Paper / Photo RPM mode</p> <p>Compatible Operating Systems: Mac OS 10.10.x, Mac OS 10.7.x, Mac OS 10.8.x, Mac OS 10.9.x, Mac OS X 10.6.8 or later, Windows 10, Windows 7, Windows 7 x64, Windows 8, Windows 8 (32/64 bit), Windows 8.1, Windows 8.1 x64 Edition, Windows Vista, Windows Vista x64, Windows XP, Windows XP x64, XP Professional x64 Edition</p>			
	<p>End-user: BOR</p> <p><b>Specifications:</b> Printer Type: Print, Scan, Copy          Printing Technology: Print Method: Precision Core Printhead Minimum Ink Droplet Volume: 3.3 pl          Printer Language: ESC / P-R          Print Direction: Bi-directional printing, Uni-directional printing          Nozzle Configuration: 400 nozzles Black, 128 nozzles per colour (Cyan, Magenta, Yellow)          Maximum Resolution: 4800 x 1200 dpi (with Variable-Sized Droplet Technology)          Automatic 2-sided printing: Yes (up to A4)          Print Speed: Photo Default - 10 x 15 cm / 4 x 6 " *2: Approx. 69 sec per photo (Border) *1          Approx. 92 sec per photo (Borderless) *1          Draft, A4 (Black / Colour): Up to 33 ppm / 20 ppm *1          ISO 24734, A4 Simplex (Black / Colour): Up to 15 ipm / 8.0 ipm *1          ISO 24734, A4 Duplex (Black / Colour): Up to 6.5 ipm / 4.5 ipm *1</p>	1 unit	1 unit	45 CD
	<p>End-user: PPDMO, AREC Center, CONFOR, Accounting</p> <p><b>Specifications:</b> Print, Scan, Copy          Photo Default - 10 x 15 cm / 4 x 6 " : Approx. 69 sec per photo (Border) / 90 sec per photo (Borderless) *1          Draft, A4 (Black / Colour): Up to 33 ppm / 15 ppm *1          ISO 24734, A4 Simplex (Black / Colour): Up to 10 ipm / 5.0 ipm *1          First Page Out Time from Ready Mode (Black / Colour): Approx. 10 sec / 16 sec *1</p>	4 units	4 units	45 CD

	<p>Printer Software: Operating System Compatibility: Windows XP / Vista / 7 / 8 / 8.1 / 10 Windows Server 2003 / 2008 / 2012 / 2016 only printing and scanning functions are supported for Windows Server OS Mac OS X 10.6.8 or later Interface: USB: USB 2.0 Network: Wi-Fi IEEE 802.11b/g/n, Wi-Fi Direct Network Protocol: TCP/IPv4, TCP/IPv6 Network Management Protocols: SNMP, HTTP, DHCP, APIPA, PING, DDNS, mDNS, SLP, WSD, LLTD</p>			
	<p><i>End-user: SHS(1), Supply (1), Electrical Eng'g (1)</i> <b>Specifications:</b> Printer Type: Print, Scan, Copy Print Method: On-demand inkjet (piezoelectric) Minimum Ink Droplet Volume: 3 pl Printer Language: ESC / P-R Print Direction: Bi-directional printing, Uni-directional printing Nozzle Configuration: 180 nozzles Black, 59 nozzles per colour (Cyan, Magenta, Yellow) Maximum Resolution: 5760 x 1440 dpi (with Variable-Sized Droplet Technology) Automatic 2-sided printing: No Print Speed: Photo Default - 10 x 15 cm / 4 x 6 " *2: Approx. 69 sec per photo (Border) *1 Approx. 92 sec per photo (Borderless) *1 Draft, A4 (Black / Colour): Up to 33 ppm / 15 ppm *1 ISO 24734, A4 Simplex (Black / Colour): Up to 10.5 ipm / 5.0 ipm *1</p>	3 units	3 units	45 CD
	<p><i>End-user: UQAO</i> <b>Specifications:</b> Printer Type: Print, Scan, Copy, Fax with ADF Printing Technology: Ink Droplet Volume: 2.8 pl Print Direction: Bi-directional printing, Uni-directional printing, Nozzle Configuration: 400 x 2 nozzles Black, 128 x 2 nozzles per colour (Cyan, Magenta, Yellow) Maximum Resolution: 4,800 x 2,400 dpi (with Variable-Sized Droplet Technology) Automatic 2-sided printing: Yes (up to A3) Print Speed: Photo Default - 10 x 15 cm / 4 x 6 " *2: Approx. 42 sec per photo (with Border) *1 Draft, A4 (Black / Colour): Up to 32 ppm / 20 ppm *1 ISO 24734, A4 Simplex (Black / Colour): Up to 18 ipm / 10 ipm *1, ISO 24734, A4 Duplex (Black / Colour): Up to 8.7 ipm / 6.0 ipm *1, ISO 24734.2, A3 Simplex (Black / Colour): Up to 10 ipm / 5 ipm *1, ISO 24734.2, A3 Duplex (Black / Colour): Up to 6.0 ipm / 3.7 ipm *1 Copy Function: Reduction / Enlargement: 25 - 400%, Auto Fit Function, Maximum Copy Size: A3 Copy Resolution: 600 x 600 dpi Max Copies: 999 copies</p>	1 unit	1 unit	45 CD

	<p>Copy Speed: Copy Quality: Normal / Best Quality, ISO 29183, A4, Simplex (Black / Colour): Up to 16 ipm / 8.8 ipm Scan Function: Scanner Type: Flatbed colour image scanner Sensor Type: CIS, Optical Resolution:1200 x 2400 dpi, Maximum Scan Area:297.18 x 431.8 mm (11.7 x 17")Scanner Bit Depth (Colour): 48-bit input, 24-bit output, Scanner Bit Depth (Grayscale):16-bit input, 8-bit output, Scanner Bit Depth (Black &amp; White):16-bit input, 1-bit output Scan Speed: Flatbed (Black / Colour): 200 dpi: 6.0 sec / 12 sec, ADF Monochrome (Simplex / Duplex):200 dpi: 8.3 ppm / -ADF Colour (Simplex / Duplex):200 dpi: 4.8 ppm / - ADF Specifications: Support Paper Thickness:64-95 g/m2ADF Capacity:35 pages (75 g/m2) Fax Function: Type Of Fax: Walk-up black-and-white and colour fax capability, Receive Memory / Page Memory:6MB, Page memory Up to 550 pages (ITU-T No.1 chart)Error Correction Mode: ITU Group3 fax with Error Correction Mode, Fax Speed (Data Transfer Rate):Up to 33.6 kbps, Approx. 3 sec/page, Fax Resolution: Up to 200 x 200 dpi, Transmission Paper Size (Flatbed):A5, Half Letter, B5 (JIS), Letter, A4, Legal, B4 (JIS), A3, 11 x 17 in, Transmission Paper Size (ADF):A5, B5 (JIS), Letter, A4, Legal, B4 (JIS), A3, 11 x 17 in, Receiving Paper Size:A5, Half Letter, B5 (JIS), Letter, A4, Legal, B4 (JIS), A3, 11 x 17 in, Speed Dial / Group Dial: Up to 200 numbers, 199 groups, Fax Features: PC Fax (Transmission / Receive), Automatic Redial, Address Book, Delay Send, Broadcast Fax (Mono Only), Transmit Reservation (200 case)</p>			
	<p><i>End-user: Guidance</i> <b>Specifications:</b> Printer Type: Printer Type: Print, Scan, Copy Printing Technology: Print Method: On-demand inkjet (piezoelectric)Minimum Ink Droplet Volume: 3 pl Printer Language: ESC / P-R, Print Direction: Bi-directional printing, Uni-directional printing, Nozzle Configuration: 180 nozzles Black, 59 nozzles per colour (Cyan, Magenta, Yellow)Maximum Resolution: 5760 x 1440 dpi (with Variable-Sized Droplet Technology)Automatic 2-sided printing: Yes (up to A4) Print Speed: Photo Default - 10 x 15 cm / 4 x 6 " *2: Approx. 69 sec per photo (Border) *1</p>	1 unit	1 unit	45 CD

	Approx. 92 sec per photo (Borderless) *1Draft, A4 (Black / Colour): Up to 33 ppm / 15 ppm *1ISO 24734, A4 Simplex (Black / Colour): Up to 10.5 ipm / 5.0 ipm *1, ISO 24734, A4 Duplex (Black / Colour): Up to 6.0 ipm / 4.0 ipm *1			
	<p>End-user: Accounting</p> <p><b>Specifications:</b> Print Speed: Photo Default - 10 x 15 cm / 4 x 6 ": Approx. 69 sec per photo (Border) / 90 sec per photo (Borderless) *1 Draft, A4 (Black / Colour): Up to 33 ppm / 15 ppm *1 ISO 24734, A4 Simplex (Black / Colour): Up to 10 ipm / 5.0 ipm *1 First Page Out Time from Ready Mode (Black / Colour): Approx. 10 sec / 16 sec *1 Printer Software: Operating System Compatibility: Windows XP / Vista / 7 / 8 / 8.1 / 10 Windows Server 2003 / 2008 / 2012 / 2016 Only printing and scanning functions are supported for Windows Server OS Mac OS X 10.6.8 or later Interface: USB: USB 2.0 Network: Wi-Fi IEEE 802.11b/g/n, Wi-Fi Direct Network Protocol: TCP/IPv4, TCP/IPv6 Network Management Protocols: SNMP, HTTP, DHCP, APIPA, PING, DDNS, mDNS, SLP, WSD, LLTD</p>	1 unit	1 unit	45 CD
4	➤ <b>SMART TV</b>			
	<p>End-user: Automotive</p> <p><b>Specifications:</b> TV Type: LED , Smart TV, Screen Size: 55 inches Resolution: 1920x1080, Full HD: 4K UHD LED Backlight: yes, HDMI: 3 x Component terminal: yes Connections LAN terminal: yes, DLNA: yes Network Wall-mounted: yes Dimensions (WxHxD): 124.0x788.6x293mm (with base) Others Weight: 17.1 kg (w/stand)</p>	1 unit	1 unit	45 CD
	<p>End-user: Computer Engineering</p> <p><b>Specifications:</b> TV Type LED , Smart TV SIZE: 55" BACKLIGHT: Direct LED Display Resolution: PAL/NTSC</p>	5 units	5 units	45 CD



	<p>HDR: Ultra HD 3840×2160  DYNAMIC CONTRAST RATIO: 3,000,000:1  ASPECT RATIO: 16:9  BRIGHTNESS: 500 cd/m2  VIEWING ANGLES (H/V): 1780/1780  WIFI / LAN: ✓, DLNA: ✓  BLUETOOTH: ✓  USB 3.0: JPEG, MP3, MKV x1  USB 2.0: JPEG, MP3, MKV x1  HDMI INPUT: x2 (2.0), x2 (1.4)  ANTENNA INPUT: x2 (NTSC)  Composite Audio /Video Input: x1  SPDIF: x1 (Optical)  EARPHONE OUTPUT: x1  INVISIBLE SPEAKERS: ✓, WAKE ON LAN: ✓  OSD MULTI LANGUAGE:  SLEEP TIMER 120 MIN: ✓  General Power Requirement : 100-240V 50/60Hz  AC  POWER CONSUMPTION: 170W  STANDBY POWER CONSUMPTION: &lt;1W  NET/GROSS WEIGHT (KG): 16.0Kg/21.0Kg  WARRANTY: 2 Years  REMOTE CONTROL: ✓, WALL BRACKET: ✓  DIGITAL ANTENNA: ✓, WIFI MODULE: Built-in</p>			
	<p>End-user: MIS (1) Teacher Education (1)  <b>Specifications:</b>  TV Type LED , Smart TV  SIZE" 50"  Backlight: Direct LED  Display Resolution: PAL/NTSC  HDR: Ultra HD 3840×2160  Dynamic Contrast Ratio: 3,000,000:1  Aspect Ratio: 16:9  Brightness: 500 Cd/M2  Viewing Angles (H/V): 1780/1780  WIFI / LAN: ✓  DLNA: ✓  Bluetooth: ✓  USB 3.0: JPEG, MP3, MKV x1  USB 2.0: JPEG, MP3, MKV x1  HDMI Input: X2 (2.0), X2 (1.4)  Antenna Input : x2 (NTSC)  Composite Audio /Video Input: x1  SPDIF: x1 (Optical)  Earphone Output: X1  Invisible Speakers: ✓  Wake On LAN: ✓  OSD Multi Language: ✓  Sleep Timer 120 Mins: ✓  General Power Requirement: 100-240V 50/60Hz  AC  Power Consumption: 170w  Standby Power Consumption: &lt;1w  Net/Gross Weight (Kg): 16.0kg/21.0kg</p>	2 units	2 units	45 CD

	Warranty: 2 Years Remote Control: ✓ Wall Bracket: ✓ Digital Antenna: ✓ WIFI Module: Built-In			
5	➤ <b>Mini PC</b>			
	<i>End-user: Internet Café</i> <b>Specifications:</b> Form Factor: Mini PC Processor: Intel Core i3-8100T 3.10 GHz Processor: Main Features 64 bit Quad-Core Processor Cache Per Processor: 6 MB L3 Cache Memory: 4GB DDR4 2400 Storage: 500 GB 7200 RPM Graphics: Intel UHD Graphics 630 Power Supply: 65W Operating System: Windows 10 Pro 64-Bit Communications LAN Speed: 10/100/1000Mbps WLAN: 802.11ac Wireless LAN Bluetooth: Bluetooth 4.0 Front Panel Ports: 1xUSB3.1Gen1Type-C 4 x USB 3.1 Gen 1 Type-A (1 w/ quick charging) 1 x Headphone out, 1 x Mic-in 1 Display Port, 1 HDMI Rear USB: 1xUSB3.1Gen1Type-A, 2 x USB 2.0 RJ45: 1 port, USB Keyboard, USB Mouse 35.56 mm x 175.26 mm x 175.26 mm, 1.80 kg	2 units	2 units	45 CD
6	➤ <b>LCD Projector</b>			
	<i>End-user: NSTP-CWTS</i> <b>Specifications:</b> Projection System: 3LCD Technology, RGB liquid crystal shutter LCD Panel: 0.55 inch with D7 Image Colour Light Output: 3,300 Lumen-2,050 Lumen (economy) In accordance with IDMS15.4 White Light Output: 3,300 Lumen - 2,050 Lumen (economy) In accordance with ISO 21118:2012 Resolution SVGA, 800 x 600, 4:3 Aspect Ratio 4:3 Contrast Ratio 15,000 : 1 Light source Lamp Lamp UHE, 210 W, 6,000 h durability, 10,000 h durability (economy mode) Keystone Correction Auto vertical: $\hat{A}\pm 30 \hat{A}^\circ$ , Manual horizontal $\hat{A}\pm 30 \hat{A}^\circ$ Colour Processing 10 Bits 2D Vertical Refresh Rate 100 Hz - 120 Hz Colour Reproduction Upto 1.07 billion colours Optical	1 unit	1 unit	45 CD

	<p>Projection Ratio 1.45 - 1.96:1  Zoom Digital, Factor: 1.35  Lens Optical  Image Size 30 inches - 350 inches  Projection Distance Wide/Tele 1.77 m - 2.4 m (60 inch screen)  Projection Lens F Number 1.44  Focal Distance 16.7 mm  Focus Manual: Offset 8 : 1  Connectivity  USB Display Function 2 in 1: Image / Mouse  Interfaces USB 2.0 Type A, USB 2.0 Type B, VGA in, HDMI in, Composite in, Cinch audio in, Wireless LAN IEEE 802.11b/g/n (optional)</p>			
	<p><i>End-user: RDP</i>  <b>Specifications:</b> White and Colour Brightness at 4,000lm, XGA resolution, 12,000 hours lamp life in eco-mode, MHL-enabled, Multi-PC Projection, Horizontal Keystone SliderConnectivity, Network: Wired LAN:1, Wireless LAN: Optional (using ELPPAP10), Analog RGB Input: D-Sub 15Pin: 2 (Blue Molding), Analog input: Composite: RCA x 1 (Yellow) , Digital Input: HDMI: 2 (1 with MHL support ) , Analog Output: D-Sub 15Pin:1, Audio Input: Stereo Mini Jack:1, Mic I/O: Stereo Mini Jack:1, Control I/O: RS-232C:1, USB Input: USB Type A: 1 (For USB Memory, USB Document Camera, Wireless LAN and Firmware Update), USB Type B: 1 (For USB Display, Mouse, K/B, Control and Firmware Update)</p>	1 unit	1 unit	45 CD
7	➤ <b>PROJECTOR</b>			
	<p><i>End-user: MIS</i>  <b>Specifications:</b> Projection Technology: RGB liquid crystal shutter projection system  Brightness*2: White Light Output (Normal/Eco):3,600lm / 2,235lm  Colour Light Output: 3,600lm  Connectivity:  USB Interface: USB Type A: 1 (for USB Memory, USB Document Camera, for Wireless LAN Unit, Firmware Update)  USB Type B: 1 (for USB Display, Mouse, K/B, Control, Firmware Update)Analog Input: D-Sub 15pin: 1 (Blue molding)  Composite: RCA x 1 (Yellow)Digital Input: HDMI: 1 (MHL supported)Audio Input:2 RCA (White / Red): 1  Contrast Ratio:15,000:1  Wireless Specifications:  Supported Speed for Each Mode: IEEE 802.11b (2.4GHz): 11Mbps  IEEE 802.11g (2.4GHz): 54 Mbps  IEEE 802.11n (2.4GHz): 130 Mbps</p>	1 unit	1 unit	45 CD

	<p>Wireless LAN Security: Quick Mode: WPA2-PSK, Advanced Mode: WPA/WPA2-PSK Supported Connection Mode: Infrastructure, Access Point Screen Size (Projected Distance): Standard Size: 60" screen 1.68 - 2.02 m Zoom : Wide: 33" - 320" [0.91 - 9.07 m] Zoom : Tele: 33" - 320" [1.10 - 10.89 m] Internal Speaker(s): Sound Output: 2W Mono Direct Power On/Off: Direct Power On/Off: Yes Dimension Excluding Feet (W x H x D): Dimension Excluding Feet (W x H x D): 302 x 77 x 234 mm Weight: 2.5kg Maintenance Cycle*4:(Normal / Eco): 6,000 hours / 10,000 hours Fan Noise (Normal / Eco): 37dB / 28dB Network: Wireless: Yes (Optional) 6,000 hours / 10,000 hours</p>			
8	➤ <b>SCANNER</b>			
	<p>End-user: GIS (1) BAC (1) VPAF (1)  <b>Specifications:</b>  Scan Function:  Scanner Type: A4 sheet-fed, simplex colour scanner  Sensor Type: CIS  Light Source: RGB LED  Optical Resolution: 600 x 600 dpi  Output Resolution: 50 – 1,200 dpi (in 1 dpi increments) Scanner Bit Depth (Colour): 48-bit input, 24-bit output, Scanner Bit Depth (Grayscale): 16-bit input, 8-bit output, Scanner Bit Depth (Black &amp; White): 16-bit input, 1-bit output, Max Document Size: 216 x 1,117mm Output File Formats: JPEG, TIFF, Multi-TIFF, PDF, Searchable PDF, BMP, PNG Document Capture Pro (Win): JPEG, BMP, PDF, Searchable PDF, TIFF, Multi-TIFF, PNG, DOCX, XLSX, PPTX  Scan Speed:  ADF Monochrome (Simplex / Duplex): 200 dpi: 25ppm / 50ipm, 5.0ppm / 10ipm (USB Bus Power)  300 dpi: 25ppm / 50ipm 5.0ppm / 10ipm (USB Bus Power)  600 dpi: 5.0ppm / 10ipm 5.0ppm / 10ipm (USB Bus Power) ADF Colour (Simplex / Duplex): 200 dpi: 25ppm / 50ipm 5.0ppm / 10ipm (USB Bus Power)  600 dpi: 5.0ppm / 10ipm 5.0ppm / 10ipm (USB Bus Power)  Scanner Type: A4 Sheet-fed, one-pass duplex colour scanner Optical Sensor: CIS, Light Source:</p>	3 units	3 units	45 CD

	RGB LED, Optical Resolution: 600 x 600 dpi, Output Resolution: 50 dpi - 1,200 dpi (1 dpi increments)Min Document Size: 50.8 x 70mmMax Document Size: 216 x 1,117mmSupport Paper Thickness: 51.8 – 128gsmADF Capacity: 20 sheets, Automatic Duplex Scanning: Yes, Daily Duty Cycle: up to 500 pages / day, Multi-feed Detection: Length Detection			
9	➤ <b>CAMERA</b>			
	<p><i>End-user: Extension</i></p> <p>Mirrorless Camera with 35mm f/1.4 R lens</p> <p>Product Highlights(Specs) • 24.3MP APS-C X-Trans CMOS III Sensor • X-Processor Pro Image Processor • 36m-Dot Electronic Viewfinder • 0" 1.04m-Dot Tilting Touchscreen LCD • UHD 4K Video Recording at 30p • Built-In Wi-Fi • Extended ISO 51200, Shooting to 14 fps • 91-Point AF with Custom AF-C Settings • Film Simulation for Photos and Videos • 35mm f/1.4 R lens o X-mount Lens o Very Fast f/1.4 Maximum Aperture o Equivalent to 53mm "Normal" Lens o Aspheric and ED Elements o Super EBC Lens Coating o Maximum Magnification of 0.17x o 1/3 Stop Click Stops</p>	1 unit	1 unit	45 CD
10	➤ <b>Accessories</b>			
	<p><b>Wifi-Router</b></p> <p><i>End-user: (Electrical Eng'g, Computer Eng'g)</i></p> <p><b>Specifications:</b> HARDWARE FEATURES</p> <p>Interface 4 10/100Mbps LAN ports1 10/100Mbps WAN port</p> <p>Button: WPS/Wi-Fi Button</p> <p>Reset Button: Power On/Off Button</p> <p>External Power Supply 9V/0.6A(EU), 9V/0.85A(US)</p> <p>Dimensions ( W x D x H ) 9.1 x 5.7 x 1.4 in. (230 x 144 x 35mm)</p> <p>Antenna 2 x 2.4GHz Antennas 1 x 5GHz Antenna</p> <p>SOFTWARE FEATURES</p> <p>Quality of Service WMM, Bandwidth Control</p> <p>Management Access Control Local Management Remote Management</p> <p>Port Forwarding Virtual Server, Port Triggering, UPnP, DMZ</p> <p>Dynamic DNS DynDns, Comexe, NO-IP</p> <p>VPN Pass-Through PPTP, L2TP, IPSec</p> <p>Access Control Parental Control, Local Management Control, Host List, Access Schedule, Rule Management</p> <p>Firewall Security DoS, SPI Firewall, IP Address Filter/Domain Filter, IP and MAC Address Binding</p> <p>Protocols Supports IPv4 and IPv6</p>	2 units	2 units	45 CD

	<p>Guest Network 2.4GHz guest network×1 5GHz guest network×1</p> <p><b>WIRELESS FEATURES</b></p> <p>Wireless Standards IEEE 802.11ac/n/a 5GHz IEEE 802.11b/g/n 2.4GHz</p> <p>Frequency 2.4GHz and 5GHz</p> <p>Signal Rate 5GHz: Up to 433Mbps 2.4GHz: Up to 300Mbps</p> <p>Reception Sensitivity 5GHz:11a 54M: -76dBm; 11ac VHT20 MCS8: -71dBm;11ac VHT40 MCS9: -66dBm; 11ac VHT80 MCS9:-62dBm 2.4GHz:11g 54M: -76dBm11n; HT20 MCS7: -73dBm;11n HT40 MCS7: -71dBm</p> <p>Wireless Functions Enable/Disable Wireless Radio, WDS Bridge, WMM, Wireless Statistics</p> <p>Wireless Security 64/128-bit WEP,WPA / WPA2,WPA-PSK/ WPA2-PSK encryption</p> <p>Transmission Power CE:&lt;20dBm(2.4GHz)&lt;23dBm(5GHz)</p> <p><b>OTHERS</b></p> <p>Certification RoHS</p> <p>Package Contents</p> <p>AC750 Wireless Dual Band Router Archer C20</p> <p>Power Adapter</p> <p>RJ45 Ethernet Cable</p> <p>Quick Installation Guide</p> <p>Box Dimensions (W X D X H) 14 x 8.8 x 2.7 in. (357x223x68mm)</p>			
	<p><b>HDMI to HDMI Cable (5m)</b> <i>End-user: Civil Engineering</i></p>	7 units	7 units	45 CD
	<p><b>Computer Optical Mouse</b> <i>End-user: Civil Engineering (CAD Room)</i></p>	15 units	15 units	45 CD
	<p><b>Computer Keyboard</b> <i>End-user: Civil Engineering (CAD Room)</i></p>	15 units	15 units	45 CD
	<p><b>Load Balancer Broadband router</b> <i>End-user: MIS</i></p> <p>Specifications:</p> <p>Standards and Protocols IEEE 802.3, 802.3u, 802.3ab TCP/IP, DHCP, ICMP, NAT, PPPoE, SNTP, HTTP, DNS, IPsec, PPTP, L2TP</p> <p>Interface 1 Fixed 10/100/1000Mbps WAN Port 3 Free Changeable 10/100/1000Mbps WAN/LAN Ports 1 Fixed 10/100/1000Mbps LAN/DMZ Port 1 Console Port (RJ-45 On RS232)</p> <p>Network Media 10BASE-T: UTP category 3, 4, 5 cable (Max 100m) EIA/TIA-568 100Ω STP (Max 100m) 100BASE-TX: UTP category 5, 5e cable (Max 100m) EIA/TIA-568 100Ω STP (Max 100m) 1000BASE-T: UTP category 5, 5e, 6 cable (Max 100m)</p> <p>Button Reset Button</p>	1 unit	1 unit	45 CD

	<p>Power Supply Internal Universal Power Supply AC100-240V~ 50/60Hz Input Flash 8MB DRAMDDRII 128MB LED PWR, SYS, Link/Act, Speed, WAN, DMZ 19-inch Standard Rack-Mount Width, 1U Height PERFORMANCE Concurrent Session 120000 NAT Throughput 350Mbps ADVANCED FUNCTIONS Load Balance Intelligent Load Balance Policy Routing Protocol Binding Link Backup (Timing, Failover) Online Detection NAT One-to-One NAT Multi-nets NAT Virtual Server, DMZ Host, Port Triggering, UPnP FTP/H.323/SIP/IPsec/PPTP ALG Routing Static Routing Dynamic Routing (RIP v1/v2) System Mode NAT, Non-NAT, Classical Routing Traffic Control IP-based Bandwidth Control Guarantee &amp; Limited Bandwidth Time-scheduled Policy IP-based Session Limit</p>			
	<p><b>Pull down/wall screen (End-user: MIS)</b> Specifications: Manual Pull Down Projector Screen 100" (70"x70") 1:1 format</p>	1 unit	1 unit	45 CD
	<p>End-user: MIS Specifications</p>	1 unit	1 unit	45 CD
	<p><b>Projector ceiling kit/Bracket</b> End-user: MIS Specifications: <b>Wireless Presenter</b> Connection Type: Bluetooth and 2.4GHz wireless connection Wireless range: 30 m Indicator Lights (LED): Battery and Connectivity LED Battery Details: Rechargeable Lithium Polymer, 85mAh Battery Life (rechargeable): 3 months* * It may vary based on use and computing conditions. Cable Length: 140 mm Sensor: 3D accelerometer and Gyroscope Sensor technology: Motion sensor</p>	1 unit	1 unit	45 CD
	<p><b>Gigabit Switch (8 ports +4 poe ports)</b> End-user: MIS</p>	2 units	2 units	

	<p>Specifications: Standards and Protocols IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3af, IEEE 802.3x, IEEE 802.1q, IEEE 802.1p Interface 8 10/100/1000Mbps RJ45 Ports AUTO Negotiation/AUTO MDI/MDIX Network Media 10BASE-T: UTP category 3, 4, 5 cable (maximum 100m) EIA/TIA-568 100Ω STP (maximum 100m) 100BASE-TX: UTP category 5, 5e cable (maximum 100m)EIA/TIA-568 100Ω STP (maximum 100m) 1000BASE-T: UTP category 5, 5e, 6 or above cable (maximum 100m)EIA/TIA-568 100Ω STP (maximum 100m) Fan Quantity Fanless Power Supply External Power Adapter(Output: 48VDC / 1.25A) PoE Ports (RJ45) Standard: 802.3 af compliant PoE Ports: Port 1- Port 4 PoE Power Budget: 55W Max Power Consumption 5.2W with no PoE device connected 65.2W with 55W PoE devices connected</p> <p>PERFORMANCE</p> <p>Switching Capacity 16Gbps Packet Forwarding Rate 1.9Mpps MAC Address Table 4K Packet Buffer Memory 1.5Mb Jumbo Frame 15KB</p> <p>SOFTWARE FEATURES</p> <p>Quality of Service Support Port-Based/802.1p/DSCP priority Support 4 priority queues Rate Limit Storm Control L2 Features IGMP Snooping V1/V2/V3 Link Aggregation Port Mirroring Cable Diagnostics Loop Prevention VLAN Supports up to 32 VLANs simultaneously (out of 4K VLAN IDs) MTU/Port/Tag VLAN Management Web-based GUI Easy Smart Configuration Utility Transmission Method Store-And-Forward</p>			45 CD
	<p><b>Gigabit Switch (16 ports)</b> <i>End-user: MIS</i> Specifications: Total Number of Network Ports:16 Number of PoE (RJ-45) Ports:8 Number of Network (RJ-45) Ports : 8 Port/Expansion Slot Details : 16 x Gigabit Ethernet Network Media Type Supported Twisted Pair Ethernet Technology Gigabit Ethernet Network Technology 10/100/1000Base-T Network &amp; Communication: Layer Supported:b2 Management &amp; Protocols: Manageable: No Physical Characteristics:</p>	2 units	2 units	45 CD



	<p>Form Factor : Wall Mountable  Rack-mountable  Height1.8"  Width11"  Depth6.7"  Weight (Approximate)4.15 lb</p>			
	<p><b>Wireless Access Point</b>  <b>Wireless Radio Specifications</b>  End-user: MIS  Specifications:  AP type: Indoor, dual radio, 5GHz 802.11ac 4x4 MIMO and 2.4GHz 802.11n 2x2 MIMO  Software-configurable dual radio supports 5GHz (Radio 0) and 2.4GHz (Radio 1)  5GHz: Four spatial stream Single User (SU) MIMO for up to 1,733Mbps wireless data rate to individual 4x4 VHT80 or 2x2 VHT160 client devices  2.4GHz: Two spatial stream Single User (SU) MIMO for up to 400 Mbps wireless data rate to individual 2x2 VHT40 client devices (300Mbps for HT40 802.11n client devices)  5GHz: Four spatial stream Multi User (MU) MIMO for up to 1,733 Mbps wireless data rate to up to three MU-MIMO capable client devices simultaneously  Support for up to 255 associated client devices per radio, and up to 16 BSSIDs per radio  <b>Supported radio technologies:</b>  802.11b: Direct-sequence spread-spectrum (DSSS)  802.11a/g/n/ac: Orthogonal frequency-division multiplexing (OFDM)  Supported modulation types:  802.11b: BPSK, QPSK, CCK  802.11a/g/n/ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM  Maximum (conducted) transmit power (limited by local regulatory requirements):  2.4GHz band: +18 dBm per chain, +21dBm aggregate (2x2)  5GHz band: +18 dBm per chain, +24dBm aggregate (4x4)  Note: conducted transmit power levels exclude antenna gain. For total (EIRP) transmit power, add antenna gain  Supported data rates (Mbps):  802.11b: 1, 2, 5.5, 11 / 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 / 802.11n (2.4GHz): 6.5 to 300 (MCS0 to MCS15)  802.11n (5GHz): 6.5 to 600 (MCS0 to MCS31) / 802.11ac: 6.5 to 1,733 (MCS0 to MCS9, NSS = 1 to 4 for VHT20/40/80, NSS = 1 to 2 for VHT160) / 802.11ac very high throughput (VHT) support: VHT 20/40/80/160  <b>Wi-Fi Antennas</b></p>	4 units	4 units	45 CD

	<p>Four integrated dual-band downtilt omnidirectional antennas for 4x4 MIMO with maximum antenna gain of 3.1dBi in 2.4GHz and 5.0dBi in 5GHz. Built-in antennas are optimized for horizontal ceiling mounted orientation of the AP. The downtilt angle for maximum gain is roughly 30 degrees.</p> <p><b>Other Interfaces</b>  One 10/100/1000BASE-T Ethernet network interface (RJ-45)  Auto-sensing link speed and MDI/MDX  802.3az Energy Efficient Ethernet (EEE)  USB 2.0 host interface (Type A connector)  Bluetooth Low Energy (BLE) radio  Up to 4dBm transmit power (class 2) and -91dBm receive sensitivity  Integrated antenna with roughly 30 degrees downtilt and peak gain of 3.4dBi (AP-314/IAP-314) or 1.5dBi (AP-315/IAP-315)  Visual indicators (multi-color LEDs): for System and Radio status  Reset button: factory reset (during device power up)  Kensington security slot</p> <p><b>Power Sources and Consumption</b>  The AP supports direct DC power and Power over Ethernet (POE)  When both power sources are available, DC power takes priority over POE</p> <p>Mounting  The AP ships with two (white) mounting clips to attach to a 9/16-inch or 15/16-inch flat T-bar drop-tile ceiling.</p> <p>Mechanical  Dimensions/weight (unit, excluding mount accessories):  182mm(W) x 180mm(D) x 48mm (H)650g/23oz</p>			
	<p><b>PoE Switch (8 ports)</b>  End-user: MIS  Specifications: Small-form 10-port fully managed Gigabit Layer 2 PoE+ switch. This model has 8x 10/100/1000 PoE+ enabled ports and 2x combo dual personality ports operating either as 10/100/1000 or as Gigabit SFP ports. Supports IEEE 802.3at Power over Ethernet with a PoE+ power budget of 67 Watts.</p>	2 units	2 units	45 CD
	<p><b>Smart UPS (End-user: MIS)</b>  Specifications:  Rack mount  Output power capacity  600Watts / 1.0 kVA  Max Configurable Power (Watts)  600Watts / 1.0 kVA  Nominal Output Voltage  230V  Output Voltage Distortion</p>	1 unit	1 unit	45 CD

	Less than 5% at full load Output Frequency (sync to mains) 57 - 63 Hz for 60 Hz nominal Topology Line Interactive Waveform type Sine wave			
	<b>Power supply 350 watts ATX</b> <i>End-user: MIS</i>	5 units	5 units	45 CD
	<b>Hard Drive</b> <i>End-user: VPAF, VPAA</i>	2 units	2 units	45 CD
	<b>External Drive 1TB</b> <i>End-user: SHS</i>	2 units	2 units	45 CD
	<b>Camera Tripod</b> <i>End-user: RDP</i> Specifications: 1.5M Foldable Telescoping Tripod with Fluid Drag Head Padded Bag	1 unit	1 unit	45 CD
	<b>CPU w/ keyboard &amp; mouse</b> <i>End-user: RDP</i> Specifications: Branded Intel Core i3-8400 Processor, 8GB DDR4 Memory, 1TB HDD, NVidia GTX 1050 2GB VRAM, 802.11AC WiFi+BT, Windows 10, Keyboard & Mouse	1 unit	1 unit	45 CD
	<b>Wireless Mouse</b> <i>End-user: RDP</i> Specifications: 33feet (10m) wireless range, Nano receiver, 2.4GHz connection, Plug and Play, ideal for left or right hand	4 units	4 units	45 CD
	<b>Projector Stand</b> ( <i>End-user: GIS</i> ) Specifications: 1.5m Foldable telescoping Tripod self-aligning metal quick-flip leg locks	1 unit	1 unit	45 CD
	<b>Speaker's Stand</b> ( <i>End-user: GIS</i> ) Specifications: Heavy Duty Stand; Compatible for Any Kind of Speaker's	2 units	2 units	45 CD
	<b>Rack LCD Console</b> ( <i>End-user: GIS</i> ) Specifications: Rack LCD Console with Integrated 8-port Analog KVM Switch	1 unit	1 unit	45 CD
	<b>Server Hard Drive 12TB or Higher Digitally Signed Firmware</b> <i>End-user: GIS</i>	1 unit	1 unit	45 CD
	<b>Camera Mic</b> <i>End-user: Extension</i>	1 unit	1 unit	45 CD
	<b>USB 32GB</b> <i>End-user: Extension</i>	4 units	4 units	45 CD