

## **Terms of Reference**

### **ICT Equipment and Peripherals**

#### **Background**

The Department of Tourism (DOT) is the national government agency responsible for tourism development planning, implementing standards and regulations, evaluating and facilitating the formulation of policies that will enable sustainable tourism development and the provision of a healthy business environment.

In order to do this, DOT employees must have functioning and updated ICT equipment such as, but not limited to, desktops, laptops, servers, productivity software, uninterrupted power supplies (USP), etc. to be able to work efficiently, provide access analyze and process data to produce relevant statistics, thereby providing the necessary service needed from the DOT.

#### **Justification**

The current ICT equipment situation in DOT central thru the inventory conducted by the IT Division showed that most of the desktops, laptops, USP and other ICT peripherals are beyond its maximum life span with some equipment as old as 1993. Which has render this old equipment's to be non-functional, beyond repair, obsolete and could not meet the demand of the workload and the current technology. Among others, breakdown of equipment that can result in data loss that can hamper the DOT operating unit's operations. There is an issue concerning security and insufficient productivity software such as but not limited to Microsoft Office, security update, etc. which are urgently need immediate action.

The lack of ICT equipment in DOT central and regional offices result to sharing of ICT equipment such as but not limited to desktop, laptop, printer, tablets, etc... with a ratio of 3:1 resulting to inefficiency the operation of the agency. In addition, the newly created offices that are lacking of desktop and laptop for their daily operations.

#### **Objective**

- To provide efficient and reliable delivery of service to the different tourism stakeholders and the general public.
- To provide officials and staff of the DOT with functional and working ICT equipment, which can aid the different operating units in the performance of its functions.

## Technical Specifications:

### I. Lot No. 1 – Desktop Printer and Peripherals

#### A. CB435A Toner

Description
Colour(s) of print: Black Page yield (black A4): -1500 standard pages. Declared yield value in accordance with ISO/IEC 19752

#### B. 128GB ixpand OTG

Description
Warranty: ROW 2 year
<b>Compatibility:</b> -iPhone 5, iPhone 5c, iPhone 5s, iPhone 6, iPhone 6 Plus, iPhone 6s, iPhone 6s Plus, iPad Air™, iPad mini™, iPad mini 4, iPad Pro, iPad with Retina display, iPod® 5th Generation and newer, with Lightning connector and iOS 8.2+ Windows Vista®, Windows® 7, Windows 8, Windows 10, Chrome OS, Mac OS X v10.8 and higher
<b>Interface:</b> - Lightning and USB 3.0 connectors (one connector used at a time)
<b>Play popular format videos:</b> - .MP4 and .MOV file formats. 4K Ultra HD (3840x2160) video support may vary based on file attributes, host device and other factors. DRM-protected content cannot be streamed. Check with the content provider for playback restrictions.
<b>Dimensions:</b> - 59.94 x 12.19 x 17.27mm or 2.36 x 0.48 x 0.68in. (LxWxH) Operating temperature: 0-35° C functional Capacities: 128GB

#### C. 64GB Ultra USB OTG Drive

Description
Warranty: ROW 5 year
<b>Compatibility:</b> - Compatible with most Android™ devices. Requires host device with On The Go (OTG) compatibility. Compatible with PC & Mac computers– no drivers needed: Windows Vista, Windows 7, Windows 8, Windows 10, Mac OS 10.6+
Operating temperature: 0° – 35°C (32° – 95°F)
Storage temperature: –10° – 70°C (14° – 158°F)

#### D. 128GB Ultra USB OTG Drive Type C

Description
Performance: : Up to 150MB/s read speed
<b>Dimensions:</b> -8.60x12.10x44.41mm; 0.34x0.48x1.75 in(HxWxL)
Operating temperature: C°35° – 0 (F°95° – 32)
Storage temperature: C°70° – 10: (F°158° – 14)

Compatibility: Compatible with most Android devices
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<b>Software:</b>
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- Windows 7, Windows 8, Windows 10 and Mac OS X v10.9+
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Warranty: 5-year limited
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### E. GT51/GT52 4 Ink Bottle Set

Description
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<b>Color(s):</b>
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- Black, cyan, yellow, magenta
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Ink type: Black pigment based color dye based
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<b>Compatible printers:</b>
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- HP deskjet GT 5810 all-in-one, HP deskjet GT5820 all-in-one, HP ink tank 115, HP ink tank 315, HP ink tank 319, HP ink tank wireless 410, HP ink tank wireless 415, HP ink tank wireless 419
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### F. Multi Function Laser Printer

Description
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Function: Print, copy, scan Multitasking Supported: Yes First page out black (A4, ready): As fast as 8.5 sec. First page out black (A4, sleep): As fast as 14 sec. Print speed black: Normal up to 20 ppm First page out (ready): Black, as fast as 8.5 sec. First page out (sleep): Black, as fast as 14 sec. Duty Cycle(monthly, A4): Up to 10,000 pages Recommended monthly page volume: - 100 to 1,500 Print technology: Laser Print quality black (best): Up to 1200x1200 dpi Print languages: SPL Display: 2 line LCD(16 characters per line) Processor Speed: 600 Mhz Automatic paper sensor: No Duplex printing: Manual(driver support provided) Replacement cartridges: - Standard toner cartridge (1,000 yield) MLT-D1115; high yield toner cartridge (1,800 yield) MLT-D111L
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<b>Mobile printing capability:</b>
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- Wireless direct printing, mobile apps, google cloud print
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Wireless capability: Yes
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Connectivity, standard: - Hi-speed USB 2.0 port, built-in wifi 802.11 b/g/n
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Network ready: Standard (wifi 802.11 b/g/n)
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<b>Minimum system requirements:</b>
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- Windows XP, 32 bit or newer,
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<b>Compatible Operating Systems:</b>
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- Windows XP, 32 bit or newer, 2003 server, Vista, 2008 server, 2012 server, 2016 server
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Memory: 128 MB
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Memory Maximum: 128 MB
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Paper Handling Input, standard: - 150-sheet input tray
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Paper Handling output, standard:- 100-sheet output bin

Maximum output capacity: Up to 100 sheets  
Duplex printing: Manual(driver support provided)  
Media sizes supported:  
- A4,A5,B5(ISO),B5(JIS),Oficio,Envelope (DL,C5)  
Media size, custom: 76x127 to 216x356 mm  
Media types:  
- Plain, thick, thin, cotton, color, preprinted, recycled  
lables,cardstock, bond, archive, envelope  
Media weight supported: 60 to 163 g/m  
Scanner type: Flatbed  
Scan File Format: PDF,JPG,TIFF  
Scan resolution, optical: Up to 1,200 dpi  
Scan size (ADF) maximum: 216x356 mm  
Scan size (ADF) manimum: 145x145 mm  
Digital sending standard features:  
- Scan to WSD, WSD scan, PC scan  
Scan input modes:  
- Front-panel scan, copy, user application  
via TWAIN or WIA  
Copy speed (normal): Black, up to 20 cpm color  
Copy resolution (Black text): - Up to 600 x 600 dpi  
Copy reduce/Enlarge settings: 25 to 400%  
Copies, Maximum: Up to 999 copies  
Power: 220 to 240 VAC, 50/60 Hz  
Power Consumption:  
- 310 watts(printing), 2.1 watts (Power Save) 30 watts (ready)  
Energy efficiency: Energy Star qualified  
Operating Temperature range: - 10 to 30 C  
Recommended operating humidity range: - 20 to 70% RH (non condensing)  
Acoustic power emissions (ready): - 3.9 B (A)  
Cable included: Yes, USB

### G. Dot Matrix Printer

Description
Print Method: Impact dot matrix
Control Panel: 4 switches and 5 LEDs
Print Direction: Bi-direction with logic seeking
Number of Pins in Head: 24 pins
Control Code: ESC/P2 and IBM PPDS emulation
High Speed Draft: - 10cpi: 347 cps, 12cpi: 416 cps
<b>Draft:</b> 10cpi: 260 cps 12cpi: 312 cps 15cpi: 390 cps (Condensed) 17cpi: 222 cps (Condensed) 20cpi: 260 cps"
<b>Letter Quality:</b> 10cpi: 86 cps 12cpi: 103 cps 15cpi: 129 cps

(Condensed) 17cpi: 147 cps (Condensed) 20cpi: 172 cps"
MTBF: Approx. 10,000 POH (25% Duty)
Printhead Life: Approx. 400 million strokes/wire
Mean Print Volume Between Failure (MVBF): - Approx. 20 million lines (Except print head)
<b>Character Sets:</b> - Italic table, PC437 (US Standard Europe), PC850 (Multilingual), PC860 (Portuguese), PC861 (Icelandic), PC863 (Canadian-French), PC865 (Nordic), Abicomp, BRASCII, Roman 8, ISO Latin 1, PC 858, ISO 8859-15
Manual Insertion: Rear in, Top out
Push Tractor: Rear in, Top out
<b>Cut Sheet (Single Sheet):</b> Length: 100 ~ 364 mm (3.9 ~ 14.3") Width: 100 ~ 257 mm (3.9 ~ 10.1") Thickness: 0.065 ~ 0.14 mm (0.0025 ~ 0.0055")"
<b>Cut Sheet (Multi-part Forms):</b> Length: 100 ~ 364 mm (3.9 ~ 14.3") Width: 100 ~ 257 mm (3.9 ~ 10.1") Thickness: 0.12 ~ 0.32 mm (0.0047 ~ 0.0126")"
<b>Envelope (No.6):</b> Length: 92 mm (3.6"), Width: 165 mm (6.5"), Thickness: 0.16 ~ 0.52 mm (0.0063 ~ 0.0205")
<b>Envelope (No.10):</b> Length: 105 mm (4.1"), Width: 241 mm (9.5"), Thickness: 0.16 ~ 0.52 mm (0.0063 ~ 0.0205")
<b>Continuous Paper (Single Sheet):</b> Length: 101.6 ~ 558.8 mm (4.0 ~ 22.0") Width: 101.6 ~ 254.0 mm (4.0 ~ 10.0") Thickness: 0.065 ~ 0.32 mm (0.0025 ~ 0.0126")
<b>Continuous Paper (Multi-part Forms)</b> Length: 101.6 ~ 558.8 mm (4.0 ~ 22.0") Width: 101.6 ~ 254.0 mm (4.0 ~ 10.0") Thickness: 0.065 ~ 0.32 mm (0.0025 ~ 0.0126")
<b>Roll Paper:</b> Width: 216 mm (8.5"), Thickness: 0.07 - 0.09 mm (0.0028 -0.0035") Memory Buffer: 128 KB
<b>Supported OS:</b> -Windows 95/98/2000/ Me /XP / Vista / 7 / 8 / 8.1/10
Dimensions: 362 x 275 x 154 mm Weight: 4.1kg Ribbon Cartridge Black: Approx. 2.5M characters (LQ 10cpi, 48 dots/character
<b>Interface:</b> Bi-directional parallel interface USB 2.0 Full-Speed Serial

## H. 1TB SSD External Drive

Description
<b>Length (in/mm):</b> 2.953 in/75 mm
<b>Width (in/mm):</b>

2.185 in/55.5 mm
<b>Depth (in/mm):</b> 0.394 in/10 mm
<b>Weight (lb/kg):</b> 0.143 lb/0.065 kg
<b>Capacity:</b> 1 TB
<b>Warranty:</b> 3 Years
<b>System Requirements:</b> Windows 7 or higher, or Mac OS® X 10.12 or higher operating system operating system Available SuperSpeed USB 3.0 port (required for USB 3.0 transfer speeds or backwards compatible with USB 2.0 ports at USB 2.0 transfer speeds).
<b>Included:</b> 20 cm USB 3.0 cable Quick start guide

## II. Lot No. 2 – Communication Response Hotline Peripherals

### A. Webcam

Description
<p><b>System Requirements:</b> Compatible with: Windows 10 or later, Windows 7&amp;8 Works in USB video device class (UVC) mode with supported video calling clients: - macOS 10.10 or later - Chrome OS - Android 5.0 or above - USB port - Internet access - Works with skype - google hangouts - Facetime for mac</p>
<p><b>Technical Specifications:</b> Max resolution: 1080p/30fps - 720p/30fps Focus type: Autofocus Lens technology: Glass Built-in mic: Mono Tripod ready universal clip fits laptops, LCD or monitors Cable length: 3 Ft.</p>

### B. Headset

Description
<p>Product type: Headset-Wired-US Color: Black Connectivity technology: Wired Audio specifications: Frequency response - 150-7000 Hz- Sensitivity 93.6 dB Controls: Mute Bundled with: 3 years advanced exchange service</p>

<p>Recommended use: Computer  Headphones form factor: On- ear  Sound output mode: Stereo  Impedance: 32 Ohm  Weight: 5.03 oz  Earpad material: Leatherette  Diameter: 1.1 in.</p>
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**III. Lot No. 3 – Desktop UPS**

**A. Desktop UPS**

Description
<p><b>Output:</b>  Power Capacity- 600 W / 1000 VA  Output Voltage on Battery- 230VAC +/- 10%  Output Frequency Range- 50 Hz or 60 Hz +/- 1 Hz  Topology and output waveform- Line interactive  Output Connections- (6) IEC battery backup outlets</p>
<p><b>Input:</b>  Input Voltage Range- 170-280 (V)  AC Input Fuse- 10A  Cord Length- 1.5 (m)  Input Connection- IEC</p>
<p><b>Batteries:</b>  Battery Type- 12 V / 9Ah X 1  Typical Recharge Time- 6-8 hours</p>
<p><b>Runtime Estimates:</b>  240 W Runtime (min)- 2.5</p>
<p><b>Physical and Warranty:</b>  Dimensions-9.25 cm x 16.05 cm x 30.5 cm  Net weight- 5.7 kg  Warranty- 2 Years</p>

**IV. Lot No. 4 – Network Infrastructure Peripherals**

**A. Network Switch UPS 1400VA**

Description
<p><b>Output:</b>  Output Capacity- 1400 VA / 700 Watts  Output Voltage / Frequency (On utility) - 230V, 50/60+/-1Hz  Output Voltage / Frequency (On battery)  230 Vac +/- 8% 50 or 60 Hz +/-1 Hz (auto-sensing)  Output Connections  - 4 Universal and 2 IEC sockets  (all with battery backup and surge protection)  Waveform Type -Stepped Approximation to Sine Wave</p>
<p><b>Input:</b>  Input Voltage /Frequency -150 – 280V, 50/60Hz +/-3Hz (default:50Hz)  Input Connection- IEC-320 C14, NEMA 5-15P</p>
<p><b>Surge Protection:</b>  AC Power Surge Protection- All sockets  Data Line Surge Protection- RJ-11 Modem/Fax protection</p>

**Physical:**

Unit Dimensions (H x W x D) - 215 x 130 x 336 mm  
 Unit Weight- 12.0 Kg  
 Shipping Dimensions (H x W x D) - 295 x 245 x 440 mm  
 Shipping Weight- 13.0 Kg  
 Color- Black

**Battery:**

Battery Type - Maintenance-free, sealed lead-acid battery, leak proof  
 Battery Size- 12 volt, 7.2 Ah x 2

**Management:**

Alarms- Visual (LED) and audible alarms  
 Adjustable Sensitivity and Transfer Voltage - Low, Medium (default), High  
 Auto-Shutdown Software  
 -PowerChute Personal Edition  
 -(Via USB interface. USB cable not included)

**B. 24 Port Gigabit Switch**

Description
Standard - IEEE 802.3, 802.3u, 802.3x, 802.3ab, 802.3az
Number of Ports- 24 Gigabit
MAC Address Table Size- 8,000 entries
Speed- 10/100/1000
Bandwidth- 48 Gbps (non-blocking)
<b>Performance:</b>
-Full line rate and forwarding rate of 64B frame at:
-1.488 Mpps for 1000M port
-0.1488 Mpps for 100M port
-0.01488 Mpps for 10M port
Quality of Service- 802.1p and DSCP
Status LEDs- Link, speed, and activity indicators
Power Supply- Internal
Power- 110–240V AC, 50/60Hz
Power Saving- Cable connected detection sleep mode
Power Consumption in Idle/ Use (100% Traffic) - 3.62W / 11.89W
Fan- None
Enclosure Type- Metal
Unit Dimensions- (17.3 x 7.9 x 1.7 in.)
Unit Weight- 2.290 kg (5.05 lbs)
Temperature (Operating)- 0 to 50°C (32 to 122°F)
Temperature (Storing)- -40 to 70°C (-40 to 158°F)
Humidity (Operating)- 10 to 90% (non-condensing)
Certifications- FCC Class A, CE Class A, UL, CB
Mounting- Rack mount
<b>Minimum System Requirements:</b>
-Connected device need Ethernet connectivity and ethernet cables
Warranty and Support- 5 years
<b>Package Contents:</b>
-Linksys LGS124 24-Port Gigabit Ethernet Switch
-Power cord and Quick Start Guide

## Summary

Item	Qty	Total Amount
<b>Lot No. 1</b>		
CB435A Toner	5	19,930
128GB ixpand OTG	10	56,640
64GB Ultra USB OTG Drive	10	10,290
128GB Ultra USB OTG Drive Type C	10	12,350
GT51/GT52 4 Ink Bottle Set	5	6,950
Multi Function Laser Printer	5	68,444
Dot Matrix Printer	2	26,759
1TB SSD External Drive	25	296,100
<b>Lot No. 2</b>		
Webcam	10	46,340
Headset	10	24,210
<b>Lot No. 3</b>		
Desktop UPS	5	31,870
<b>Lot No. 4</b>		
Network Switch UPS 1400VA	21	270,144
24 Port Gigabit Switch	10	118,320
<b>Total Amount</b>		<b>988,347.00</b>

### Project Cost:

Total budget **PhP 988,347.00** inclusive of VAT chargeable against ITD 2020 funds.

**Mode of Payment:** Government Procedure

**Delivery:** 45 days upon receipt of Notice to Proceed

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