

## **ANNEX 1**

### **1. DESKTOP COMPUTER for RIC-Manila & LICs (Tuguegarao, Cebu, Davao): 4 units**

Specifications:

Processor - Intel Core i7-2600 Processor, 3.4GHz, 8M Cache (higher or better)

RAM - 8 GB DDR4 (or higher)

Hard Drive - 500 GB solid state hard drive

Graphics Card - any with DisplayPort/HDMI or DVI support

Monitor - 23" widescreen LCD with DisplayPort/HDMI or DVI support

Operating System - Windows 10 Home or Professional editions

Software: Microsoft Office Professional 2016

Keyboard - Full Size - US English

Pointing device - Optical Mouse with Scroll Button

CDRW/DVDRW - DVDRW

Power Supply – 600 watts

UPS - 1500VA

Printer – All in One Printer

Backup Device - External hard drive

Computer Table

Warranty - 1 Year parts and labor, Onsite Support Warranty.

### **2. COMPUTER NOTEBOOKS for RIC-Manila & LICs (Tuguegarao, Cebu, Davao): 8 units**

Specifications:

Processor: i7 7700HQ (higher, or better)

Memory: 8GB DDR4 (or higher)

Hard Drive: 1TB

SSD: 128GB SSD

GPU: 4GB DDR5 128-bit

Screen: 15.6-inch UHD (3840 x 2160) IPS Anti-Glare LED-Backlit

Operating System: Windows 10 Home or Professional editions

Software: Microsoft Office Professional 2016

Accessories: with Backpack

Warranty - 1 year warranty with accidental damage protection

Power supply adaptor

### **3. PORTABLE INTERNET BROADBAND for RIC-Manila & LICs (Tuguegarao, Cebu, Davao): 4 units**

#### Specifications:

Speeds of up to 42 Mbps

LTE 700MHz ready for better indoor coverage

Network - 3G/HSPA/HSPA+/LTE+

Battery - 2000mAh removable battery

Connectivity - Can support up to 5 WiFi users

Memory - Up to 32GB SD Card support

### **4. CAMERA for RIC-Manila & LICs (Tuguegarao, Cebu, Davao): 4 units**

#### Specifications

Body + 16–50 mm Power Zoom Lens

#### Lens

- LENS MOUNT : E-mount lenses
- LENS COMPATIBILITY : E-mount lenses

#### SENSOR

- SENSOR TYPE : APS-C
- SENSOR : APS-C type (23.5 x 15.6 mm)
- NUMBER OF PIXELS (EFFECTIVE) : 24.3MP
- NUMBER OF PIXELS (TOTAL) : Approx. 24.7 megapixels
- IMAGE SENSOR ASPECT RATIO : 3:02
- ANTI-DUST SYSTEM : Charge protection coating on Optical Filter and ultrasonic vibration mechanism

#### Recording (movie)

- RECORDING FORMAT (MOVIE) : AVCHD 2.0 / MP4

#### Noise Reduction

- MULTI FRAME NR : Auto/ISO 100 to 51200

#### Focus

- FOCUS TYPE : Fast Hybrid AF (phase-detection AF/contrast-detection AF)
- TYPE : Built-in flash
- AF ILLUMINATOR RANGE : Approx. 0.3 - approx. 3.0 m (with E PZ 16-50 mm F3.5-5.6 OSS lens attached)

#### Exposure

- METERING TYPE : 1200-zone evaluative metering
- METERING SENSOR : APS HD CMOS sensor
- METERING SENSITIVITY : EV0 to EV20 (at ISO100 equivalent with F2.8 lens attached)
- EXPOSURE COMPENSATION : +/-5.0 EV (1/3 EV, 1/2 EV steps selectable)
- ISO SENSITIVITY (RECOMMENDED EXPOSURE INDEX) : ISO 100-25600

#### Viewfinder

- VIEWFINDER TYPE : 0.39 in electronic viewfinder (color)
- NUMBER OF DOTS : 1,440,000 dots
- FIELD COVERAGE : 100%
- DIOPTRIC ADJUSTMENT : -4.0 to +3.0 m-1

## LCD Screen

- MONITOR TYPE : 3.0" wide type TFT LCD
- TOTAL NUMBER OF DOTS : 921,600 dots
- FOCUS MAGNIFIER : Yes (5.9x, 11.7x)
- QUICK NAVI : Yes

## Other Features

- CLEAR IMAGE ZOOM : Approx. 2x
- DIGITAL ZOOM (STILL IMAGE) : L: approx. 4x; M: approx. 5.7x; S: approx. 8x
- DIGITAL ZOOM (MOVIE) : Approx. 4x
- SMILE SHUTTER : Yes (selectable from 3 steps)

## Shutter

- SHUTTER SPEED : Still images: 1/4000 to 30 sec, Bulb, Movies: 1/4000 to 1/4 (1/3 steps) up to 1/60 in AUTO mode (up to 1/30 in Auto slow shutter mode)
- FLASH SYNC. SPEED : 1/160 s
- ELECTRONIC FRONT SHUTTER CURTAIN : Yes (On/Off)

## Image Stabilization

- STEADYSHOT : Not supported (image stabilization supported on lens)

## Flash Control

- FLASH COMPENSATION : +/-3.0 EV (switchable between 1/3 and 1/2 EV steps)

## Drive

- CONTINUOUS DRIVE SPEED (APPROX. MAX.) : 11 fps (in High Continuous shooting)

## Interface

- PC INTERFACE : Mass-storage, MTP, PC remote
- MULTI INTERFACE SHOE : Yes
- INTERFACES : 4K still image PB, HDMI micro connector (Type-D), Multi/Micro USB Terminal, Multi Interface Shoe, NFC, PC Remote, PhotoTV HD, Wireless LAN (built-in)

## Power

- SUPPLIED BATTERY : NP-FW50 W-series Rechargeable Battery Pack
- BATTERY LIFE (STILL IMAGES) : Up to 360 shots
- INTERNAL BATTERY CHARGE : Yes

## Size & Weight

- DIMENSIONS (W X H X D) : 66.9 x 120 x 45.1 mm
- WEIGHT (WITH BATTERY AND MEMORY CARD INCLUDED) : 285 g (Body Only)/344 g (With battery and media)

## Wi-Fi®

- VIEW ON SMARTPHONE : Yes
- VIEW ON TV : Yes
- WIRELESS & NETWORK CAPABILITIES : Downloadable Camera Apps, Wi-Fi

## Color Options

- black

## What's In The Box

Micro USB cable

AC adaptor (AC-UB10)

Rechargeable battery pack (NP-FW50)

Shoulder strap

Eyepiece cup

SELP1650  
Lens cap  
Power cord

## 5. Label Printer for RIC-Manila & LICs (Tuguegarao, Cebu, Davao): 4 units

### Printing

Technology: Thermal Transfer  
Tape Width: 6 - 36mm  
Resolution: 360 dpi  
Printable Dot Numbers: 384 dot numbers  
Max Print Height: 27.1mm  
Max Print Speed: 35mm / sec (With AC Adapter or Li-ion battery)  
15mm / sec (With 6 AA Batteries)

### Print Settings

Repeat Printing: Yes  
Auto Increment: Yes  
Data Import: Yes  
Number Serialization: Up to 4 digits or alphabets  
Mirror Printing: Yes  
Vertical Printing: Yes  
Multi Line Print: Standalone mode: Up to 13 lines (with 36mm tape)  
Margins: Minimum 4mm lead for industrial labels,  
10mm lead for speciality labels  
Batch printing settings from 1 to 500mm  
Fixed Length: Auto / Custom  
Cable Wrap: Yes  
Flag: Yes  
QR Code: Yes  
Barcodes: via Handheld: 9 types EAN 8, EAN 13, Code 39, Code 128,  
UPC-A, UPC-E, ITF, CodaBar, QR Code  
via Label Editor: 14 types EAN 8, EAN 13, Code 39, Code 128,  
UPC-A, UPC-E, ITF, CodaBar, QR Code,  
NW-7 (CodaBar), EAN-128(GS1-128), GS1 DataBar, MaxiCode,  
PDF417, DataMatrix  
Symbols: 859 industrial and professional symbols

### Hardware

Cutter: Automatic with half-cut function  
Detection: Cover Open, Battery Level, Tape Detection (Type and size)  
Drop-Stop & Print-and-Pick: Prints, cuts and hold tape until it is pulled from printer before  
printing the next label in the batch automatically  
LCD: 140 x 80 dot back-lit monochrome LCD  
Internal Memory: Up to 100 files

### Connectivity

Interface: USB 2.0  
Software to be Downloaded: Epson Label Editor: Windows XP, Vista, 7, 8, 8.1, 10  
Epson Label Editor Lite: Mac OS X 10.6 or later

**Other Information**

AC Adapter: Yes  
Battery: 6AA (Not Included)

**Consumables**

Li-ion Battery **Spec**  
1,950mAH

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**6. PROJECTOR for RIC-Manila & LICs (Tuguegarao, Cebu, Davao): 4 units**

**Specifications:**

3200 ANSI Lumens (DLP)  
Native Resolution: XGA  
Horizontal keystone adjuster  
HDMI connectivity  
VGA, composite and S-video inputs  
Multi-PC Projection  
Split screen projection  
10,000 Hours lamp life