

## TECHNICAL REQUIREMENTS

### 1. PROJECT NAME:

- a. Procurement of Video Camera and DSLR

### 2. APPROVED BUDGET FOR THE CONTRACT (ABC):

- a. Seven Hundred Forty Thousand Pesos only (740,000.00)
- b. Inclusive of all applicable fees and taxes

### 3. DELIVERABLES:

- a. 2 units – Camera
- b. 2 units – Lens

### 4. BIDDER REQUIREMENTS:

- a. Must be a Company operating for at least three (3) years.
- b. Must be certified reseller of the product offered.
- c. Provide brochures or images of the proposed product.

### 5. MINIMUM REQUIRED TECHNICAL SPECIFICATIONS:

- a. VIDEO CAMERA
  - i. Sensor Type: 12.1MP Full-frame (35.6 x 23.8mm) Exmor R CMOS
  - ii. Effective Resolution: 12.1 megapixels
  - iii. Processor: BIONZ XR ISO Range
  - iv. Standard: 80–102,400
  - v. Expanded: 40–409,600
  - vi. Autofocus Type: Fast Hybrid AF
  - vii. AF Points: 759 phase-detection points (92% coverage)
  - viii. Eye AF: Real-time Eye AF for humans and animals
  - ix. Touch Tracking: Yes
  - x. Image Stabilization Type: 5-axis in-body image stabilization (IBIS)  
Effectiveness: Up to 5.5 stops of compensation
  - xi. Active Mode: Digital stabilization for video
  - xii. Video Recording 4K (3840 x 2160): Up to 120fps
  - xiii. Full HD (1080p): Up to 240fps
  - xiv. Bit Depth: 10-bit 4:2:2 internal recording
  - xv. Formats: XAVC HS (HEVC/H.265), XAVC S, and XAVC S-I
  - xvi. Color Profiles: S-Log3, S-Gamut3.Cine, HLG (Hybrid Log-Gamma)
  - xvii. Dynamic Range: 15+ stops
  - xviii. Viewfinder Type: OLED electronic viewfinder (EVF)

- xix. Resolution: 9.44 million dots
- xx. Magnification: 0.91x
- xxi. Refresh Rate: 120Hz LCD
- xxii. Monitor Size: 3.0 inches
- xxiii. Resolution: 1.44 million dots
- xxiv. Type: Vari-angle touchscreen LCD
- xxv. Touch Functionality: Yes
- xxvi. Storage Slots: Dual card slots supporting CFexpress Type A and SD UHS-II Burst Shooting
- xxvii. Continuous Shooting: Up to 10fps with AF/AE tracking Build &
- xxviii. Dimensions Material: Magnesium alloy, dust and moisture-resistant
- xxix. Dimensions: 129.9 x 96.9 x 80.8mm (5.12 x 3.82 x 3.18 inches)
- xxx. Weight: Approx. 699g (1.54 lbs) with battery and memory card
- xxxi. Battery Type: NP-FZ100 Life: Approx. 510 shots (LCD), 600 shots (viewfinder), or up to 135 mins of continuous video recording
- xxxii. Connectivity Ports: Full-size HDMI, USB-C 3.2 Gen 1, Micro-USB, headphone and microphone jacks, multi-interface shoe
- xxxiii. Wireless: Wi-Fi (2.4 GHz & 5 GHz), Bluetooth 5.0, FTP file transfer
- xxxiv. Additional Features Timecode Sync: Yes, for multi-camera setups
- xxxv. Heat Management: Improved design for extended 4K recording

b. LENS

- i. Focal Length: 24-70mm Maximum Aperture: f/2.8
- ii. Minimum Aperture: f/22
- iii. Lens Construction: 20 elements in 15 groups Includes 5 aspherical elements, 2 extra-low dispersion (ED) elements, 2 Super ED elements, and 2 XA (extreme aspherical) elements for high resolution and minimal distortion Nano AR Coating II to reduce ghosting and flare Aperture
- iv. Aperture Blades: 11 rounded blades for smooth, pleasing bokeh
- v. Aperture Range: Constant f/2.8 across the zoom range
- vi. Autofocus Focus System: Four XD (Extreme Dynamic) Linear Motors for fast, precise, and quiet AF
- vii. Minimum Focusing Distance: 0.21m (8.3 inches) at 24mm, 0.30m (11.8 inches) at 70mm
- viii. Maximum Magnification: 0.32x Size & Weight Length: 119.9mm (4.72 inches)
- ix. Diameter: 87.8mm (3.46 inches)
- x. Weight: Approx. 695g (1.53 lbs), significantly lighter than the first-generation model
- xi. Build Quality Mount: Sony E-mount, full-frame compatible
- xii. Construction: Dust and moisture-resistant design for rugged outdoor use

- xiii. Front Element: Fluorine coating to resist fingerprints, dust, and moisture Control & Handling
- xiv. Zoom Mechanism: Internal zoom (lens does not extend)
- xv. Zoom Ring: Smooth, variable torque zoom ring for better control
- xvi. Focus Ring: Linear Response MF for intuitive manual focus control
- xvii. Customizable Buttons: Two focus hold buttons on the barrel
- xviii. Aperture Ring: Clickable and de-clickable aperture ring for video and photo versatility
- xix. Zoom Smoothness Switch: Adjust zoom ring torque for a smoother or tighter feel
- xx. Compatibility Filter Thread: 82mm
- xxi. Compatibility: Full-frame Sony E-mount cameras (also compatible with APS-C models with an effective focal range of 36-105mm)

c. DSLR

- i. Sensor & Processor Sensor: 45MP full-frame (36 x 24mm) CMOS sensor
- ii. Processor: DIGIC X ISO
- iii. Range Standard: 100–51,200 Expanded: 50–102,400
- iv. Autofocus AF System: Dual Pixel CMOS AF II
- v. AF Points: 1,053 automatically selected AF points
- vi. Focus Modes: Eye Detection AF, Animal Detection AF, Human Detection
- vii. AF Coverage: 100% vertical and horizontal coverage
- viii. AF mode Low-Light Sensitivity: Up to -6
- ix. EV Image Stabilization Type: In-body 5-axis image stabilization (IBIS)
- x. Effectiveness: Up to 8 stops of correction with compatible lenses
- xi. Video Recording 8K (8192 x 4320): Up to 30fps, 12-bit
- xii. RAW internal recording 4K (3840 x 2160): Up to 120fps 10-bit
- xiii. Internal Recording: Yes, with 4:2:2 color sampling
- xiv. Formats: RAW, H.265 (HEVC), and H.264 HDR: HDR PQ (Perceptual Quantization) for HDR workflows
- xv. Log Profiles: Canon Log for wider dynamic range
- xvi. Burst Shooting Mechanical Shutter: Up to 12fps
- xvii. Electronic Shutter: Up to 20fps
- xviii. Viewfinder Type: OLED electronic viewfinder (EVF) Resolution: 5.76 million dots
- xix. Magnification: 0.76x Refresh Rate: 120Hz
- xx. LCD Monitor Size: 3.2 inches Resolution: 2.1 million dots
- xxi. Type: Vari-angle touchscreen
- xxii. LCD Touch Functionality: Yes
- xxiii. Storage Card Slots: Dual card slots 1x CFexpress Type B 1x SD UHS-II
- xxiv. Build & Dimensions Material: Magnesium alloy, weather-sealed construction
- xxv. Dimensions: 138 x 97.5 x 88mm (5.43 x 3.84 x 3.46 inches)

- xxvi. Weight: Approx. 738g (1.63 lbs) with battery and memory card
- xxvii. Battery Type: LP-E6NH (also compatible with LP-E6N and LP-E6 batteries)
- xxviii. Life: Approx. 320 shots per charge with the EVF, 490 shots with the LCD (CIPA rating)
- xxix. Connectivity Ports: Microphone, headphone, HDMI (Type D), USB-C, flash sync
- xxx. Wireless: Wi-Fi (5GHz and 2.4GHz), Bluetooth 5.0
- xxxi. Additional Features Time-lapse: 8K time-lapse capability
- xxxii. Weather-Sealed: Yes, suitable for professional use in various environments
- xxxiii. Compatibility: RF mount lenses (also compatible with EF lenses via adapter)
- xxxiv. Heat Management: Overheat control for extended video recording

d. LENS

- i. Focal Length: 24-105mm Maximum Aperture: f/4
- ii. Minimum Aperture: f/22 Lens Construction: 18 elements in 14 groups  
Includes 3 aspherical elements and 1 UD (Ultra-Low Dispersion) element to reduce chromatic aberrations and maintain sharpness
- iii. Aperture Blades: 9 rounded blades for smooth bokeh
- iv. Aperture Range: Constant f/4 across the zoom range
- v. Stabilization Type: Optical Image
- vi. Stabilization Effectiveness: Up to 5 stops of stabilization, ideal for handheld shooting  
Autofocus AF System: Nano USM (Ultra Sonic Motor) for fast, quiet, and smooth AF, suitable for both photography and video
- vii. Focus Control: Full-time manual focus override available
- viii. Focusing Distance: 0.45m (17.7 inches)
- ix. Maximum Magnification: 0.24x Size & Weight Length: 107.3mm (4.22 inches)
- x. Diameter: 83.5mm (3.29 inches)
- xi. Weight: Approx. 700g (1.54 lbs)
- xii. Build Quality Mount: Canon RF-mount, full-frame compatible
- xiii. Construction: Weather-sealed design for dust and moisture resistance
- xiv. Front Element: Fluorine coating to resist fingerprints, dust, and moisture
- xv. Control & Handling
- xvi. Zoom Mechanism: Extending zoom (lens length changes when zooming)
- xvii. Control Ring: Customizable control ring on the lens for adjusting settings like ISO, shutter speed, or aperture
- xviii. Compatibility Filter Thread: 77mm
- xix. Compatibility: Designed for Canon RF-mount cameras (e.g., EOS R, R5, R6)
- xx. Additional Features Focus Ring: Smooth, electronic focus control for precise manual focus  
Versatility: Ideal focal length range for general-purpose photography (landscapes, portraits, travel, etc.)

**6. MINIMUM REQUIRED TECHNICAL SPECIFICATIONS:**

Must be delivered within thirty (30) calendar days upon receipt of Notice to Proceed (NTP) after which liquidated damages shall be imposed.

**7. PAYMENT TERMS AND SCHEDULE:**

Payment will be on a send-bill arrangement to be settled within thirty (30) calendar days upon receipt of billing of statement of account. Billing can be sent to TPB upon full completion of deliver and acceptance from TPB.

Payments will be made through a Landbank of the Philippines (LBP) deposit. If the supplier does not have an LBP account, the supplier will be shoulder bank charges.

**8. PROJECT OFFICER AND ALTERNATE PROJECT OFFICER:**

a. Contact Details

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