REPUBLIC OF THE PHILIPPINES

DEPARTMENT OF BUDGET AND MANAGEMENT

GENERAL SOLANO STREET, SAN MIGUEL, MANILA

REQUEST FOR QUOTATION

The Department of Budget and Management (DBM), through its Administrative Service (AS), will undertake a Small Value Procurement for the "Supply, Delivery, Installation and Testing of Media Kit" in accordance with Section 53.9 of the Implementing Rules and Regulations of Republic Act No. 9184.

Name of Project	:	"Supply, Delivery, Installation and Testing of Media Kit"
Approved Budget for the Contract	:	"One Hundred Ninety Four Thousand Eight Hundred Nine Three Pesos and Thirty Three Centavos" (Php194,894.33)
Specifications	:	See the attached Annex "A" for specifications
Location	:	G/F DBM Building III, Gen. Solano St., San Miguel, Manila
Delivery Term	:	Within Thirty (30) calendar days from receipt of the Notice to Proceed

Interested suppliers are required to submit their valid and current Mayor's Permit, 2016 Income/Business Tax Return, PhilGEPS Registration Number, Omnibus Sworn Statement, and price quotation form (Annex "A") during submission of offer/quotation.

Award of contract shall be made to the lowest quotation, which complies with the minimum description as stated above and other terms and conditions stated in the price quotation form.

Any interlineations, erasures or overwriting shall be valid only if they are signed or initialed by the bidder or his/her duly authorized representative/s.

Submission of quotation and eligibility documents is on or before 3:00 p.m. of **November 28, 2017** at the Administrative Service, Ground Floor, DBM Bldg. III, Gen. Solano St., San Miguel, Manila. Open submission may be submitted, manually or through facsimile at fax no. 735-1957.

For inquiry, you may contact us at tel. nos. 735-4902 or 791-2000 local 3115.

Very truly yours,

RYAN S. LITA
Director IV, Administrative Service
MAP

Annex "A"

PRICE QUOTATION FORM

Date: _____

The Administrative Service
Department of Budget and Management
Ground Floor, DBM Bldg. III, Gen. Solano Street,
San Miguel, Manila

Sir/Madam:

After having carefully read and accepted the terms and conditions in the Request for Quotation, hereunder is our quotation/s for the item/s as follows:

Description	Specification	Quantity	Unit Price	Total Price
Supply, Delivery, Installation and Testing of Photocopying Machine	**A. Memory Card** ➢ Memory: 16GB ➢ Type: SD(Secure Digital Card)			
	B. Mobile phone tripod ➢ Weight: 100 g ➢ Type: Flexible tripod ➢ Max extended length: 20-50 mm ➢ Folded length: 20-50 mm ➢ Use: Video camera ➢ Material: Plastic ➢ Color: Black ➢ With mobile phone tripod mount, long bolt and nut			
	C. DSLR Camera tripod ➢ Maximum load: 8.8 lb (4 kg) ➢ Max height (24° leg angle) w/ column extended: 69.7 in (177 cm) ➢ Max height (24° leg angle) w/ column retracted: 62.6 in (159 cm) ➢ Minimum height: 16.34 in (41.5 cm) ➢ Maximum height: 69.7 in (177 cm) ➢ Folded length: 31.1 in (79 cm) ➢ Number of leg sections: 3 ➢ Leg log type: Flip lock ➢ Independent leg spread: Yes - with 3 stops ➢ Quick release (QR) plate: Slide-In Video (QR6) 1/4-20 & 3/8 ➢ Head mount thread size: 3/8-16 Leveling			

	➢ Weight: 5.73 lb (2.6 kg) ➢ Leg diameter 1: 28.6 mm ➢ Leg diameter 2: 25.2 mm ➢ Leg diameter 3: 21.8 mm			
	D. Mobile camera stabilizer ➢ Dimension: 2.4×1.9×6.4 inch (61.8×48.2×161.5 mm) ➢ Weight (including battery): 201g ➢ Weight (including gimbal): 501g • **Battery** ➢ LiPo ➢ Capacity: 980 mAh ➢ Energy: 10.8 Wh ➢ Voltage: 11.1V ➢ Charging Temperature: ➢ 5° to 40° C (41° to 104° F) ➢ 0° to 40° C (32° to 104° F) • **Gimbal** ➢ Dimensions: - 4.92×4.29×3.57 inch (Folded) - 125.06×109.15×90.98 mm ➢ Weight: 300 g ➢ Consumption: 2.5 W ➢ Angular Vibration Range: ±0.03° ➢ Controllable Range: - Pan : ±150° - Roll : ±25° - Tilt : -125° to +35° ➢ Mechanical Range: - Pan : ±165° - Roll : -50° to +90° - Tilt : -140° to +50° ➢ Max Controllable Speed: 120°/s ➢ Mobile Phone Width Range: - 2.31-3.34 inch (58.6-84.8 mm) • **Wireless** ➢ Model: Bluetooth low energy 4.0			
	E. DSLR Camera 1 (Body only) • **Camera Specifications** ➢ Type: Single-lens reflex digital camera ➢ Lens mount: F mount (with AF coupling and AF contacts) ➢ Effective pixels: 24.3 million ➢ Image sensor: 35.9 x 24.0 mm CMOS sensor (FX format) - Total pixels: 24.7 million ➢ Dust-reduction system: Image sensor cleaning, Image Dust Off			

	reference data (optional Capture NX 2 software required) • **Storage** ➢ Image size (pixels): - FX format (36x24): 6,016 x 4,016 (L), 4,512 x 3,008 (M), 3,008 x 2,008 (S) - DX format (24x16): 3,936 x 2,624 (L), 2,944 x 1,968 (M), 1,968 x 1,312 (S) - FX-format photographs taken in movie live view: 6,016 x 3,376 (L), 4,512 x 2,528 (M), 3,008 x 1,688 (S) - DX-format photographs taken in movie live view: 3,936 x 2,224 (L), 2,944 x 1,664 (M), 1,968 x 1,112 (S) ➢ File format: - NEF (RAW): 12 or 14 bit, lossless compressed or compressed - JPEG: JPEG-Baseline compliant with fine (approx. 1:4), normal (approx. 1:8) or basic (approx. 1:16) compression (Size priority); Optimal quality compression available - NEF (RAW)+JPEG: Single photograph recorded in both NEF (RAW) and JPEG formats ➢ Picture Control System: Standard, Neutral, Vivid, Monochrome, Portrait, Landscape; selected Picture Control can be modified; storage for custom Picture Controls ➢ Media: SD (Secure Digital) and UHS-I compliant SDHC and SDXC memory cards ➢ Dual card slots: Slot 2 can be used for overflow or backup storage or for separate storage of copies created using NEF+JPEG; pictures can be copied between cards ➢ File System: DCF (Design Rule for Camera File System) 2.0, DPOF (Digital Print Order Format), Exif (Exchangeable Image File Format for Digital Still Cameras) 2.3, PictBridge • **View Finder** ➢ View Finder: Eye-level pentaprism			

	single-lens reflex viewfinder ➢ Frame coverage: - FX (36x24): Approx. 100% horizontal and 100% vertical - DX (24x16): Approx. 97% horizontal and 97% vertical ➢ Magnification: Approx. 0.7x (50 mm f/1.4 lens at infinity, -1.0 m^{-1}) ➢ Eyepoint: 21 mm (-1.0 m^{-1}; from center surface of viewfinder eyepiece lens) ➢ Diopter adjustment: -3 to +1 m^{-1} ➢ Focusing screen: Type B BriteView Clear Matte Mark VIII screen with AF area brackets (framing grid can be displayed) ➢ Reflex mirror: Quick return ➢ Depth-of-field preview: Pressing depth-of-field preview button stops lens aperture down to value selected by user (A and M modes) or by camera (other modes) ➢ Lens aperture: Instant return, electronically controlled • **Lens** ➢ Compatible lenses: Compatible with AF NIKKOR lenses, including type G,E and D lenses (some restrictions apply to PC lenses), DX lenses [using DX (24x16) image area], AI-P NIKKOR lenses, and non-CPU AI lenses (A and M modes only); IX-NIKKOR lenses, lenses for the F3AF, and non-AI lenses cannot be used. The electronic rangefinder can be used with lenses that have a maximum aperture of f/5.6 or faster (the electronic rangefinder supports the center 7 focus points with lenses that have a maximum aperture of f/8 or faster and the center 33 focus points with lenses that have a maximum aperture of f/6.8 or faster) • **Shutter** ➢ Type: Electronically-controlled vertical-travel focal-plane shutter ➢ Speed: 1/4,000 to 30 s in steps of 1/3 or 1/2 EV, bulb, time (requires optional ML-L3 Remote Control), X200			

	➢ Flash sync speed: X=1/200 s; synchronizes with shutter at 1/250 s or slower (flash range drops at speeds between 1/200 and 1/250 s) • **Release** ➢ Release Modes: S (single frame), CL (continuous low speed), CH (continuous high speed), Q (quiet shutter-release), QC (quiet continuous shutter-release), ⏲ (self-timer), (remote control), MUP (mirror up) ➢ Frame advance rate: Approx. 1 to 5 fps (CL), approx. 6 fps (CH) or 3 fps (QC) ➢ Self-timer: 2 s, 5 s, 10 s, 20 s; 1 to 9 exposures at intervals of 0.5, 1, 2 or 3 s ➢ Remote release modes: Delayed remote, quick-response remote, remote mirror-up • **Exposure** ➢ Metering: TTL exposure metering using 2,016-pixel RGB sensor ➢ Metering method: - Matrix: 3D color matrix metering II (type G,E and D lenses); color matrix metering II (other CPU lenses); color matrix metering available with non-CPU lenses if user provides lens data - Center-weighted: Weight of 75% given to 12-mm circle in center of frame; diameter of circle can be changed to 8, 15 or 20 mm, or weighting can be based on average of entire frame (non-CPU lenses use 12-mm circle or average of entire frame) ➢ Spot: Meters 4-mm circle (about 1.5% of frame) centered on selected focus point (on center focus point when non-CPU lens is used) ➢ Range: (ISO 100, f/1.4 lens, 20°C/68°F) - Matrix or center-weighted metering: 0 to 20 EV - Spot metering: 2 to 20 EV ➢ Exposure meter coupling: Combined CPU and AI			

	➢ Exposure modes: Auto (auto; auto [flash off]), scene (portrait, landscape, child, sports, close up, night portrait, night landscape, party/indoor, beach/snow, sunset, dusk/dawn, pet portrait, candlelight, blossom, autumn colors, food, silhouette, high key, low key), programmed auto with flexible program (P), shutter-priority auto (S), aperture-priority auto (A), manual (M), U1 (user settings 1), U2 (user settings 2) ➢ Exposure compensation: Can be adjusted by -5 to +5 EV in increments of 1/3 or 1/2 EV in P, S, A and M modes ➢ Exposure bracketing: 2 to 3 frames in steps of 1/3, 1/2, 2/3, 1, 2 or 3 EV ➢ Exposure lock: Luminosity locked at detected value with AE-L/AF-L button ➢ ISO sensitivity (Recommended Exposure Index): ISO 100 to 6400 in steps of 1/3 or 1/2 EV; can also be set to approx. 0.3, 0.5, 0.7 or 1 EV (ISO 50 equivalent) below ISO 100 or to approx. 0.3, 0.5, 0.7, 1 or 2 EV (ISO 25600 equivalent) above ISO 6400; auto ISO sensitivity control available ➢ Active D-Lighting: Auto, Extra high, High, Normal, Low, Off ➢ ADL bracketing 2 frames using selected value for one frame or 3 frames using preset values for all frames • **Focus** ➢ Autofocus: Multi-CAM 4800 autofocus sensor module with TTL phase detection, fine-tuning, 39 focus points (including 9 cross-type sensors; the center 33 points are available at apertures slower than f/5.6 and faster than f/8, while the			

	center 7 points are available at f/8), and AF-assist illuminator (range approx. 0.5 to 3 m/1 ft 8 in. to 9 ft 10 in.) ➢ Detection range: -1 to +19 EV (ISO 100, 20°C/68°F) ➢ Lens servo: - Autofocus (AF): Single-servo AF (AF-S); continuous-servo AF (AF-C); auto AF-S/AF-C selection (AF-A); predictive focus tracking activated automatically according to subject status - Manual focus (M): Electronic rangefinder can be used ➢ Focus point: Can be selected from 39 or 11 focus points ➢ AF-area modes: Single-point AF, 9-, 21- or 39-point dynamic-area AF, 3D-tracking, auto-area AF ➢ Focus lock: Focus can be locked by pressing shutter-release button halfway (single-servo AF) or by pressing AE-L/AF-L button • **Flash** ➢ Built in flash: AUTO, , , , , , : Auto flash with auto pop-up P, S, A, M, : Manual pop-up with button release ➢ Guide number: Approx. 12/39, 12/39 with manual flash (m/ft, ISO 100, 20°C/68°F) ➢ Flash control: TTL: i-TTL flash control using 2,016-pixel RGB sensor is available with built-in flash and SB-910, SB-900, SB-800, SB-700, SB-600, SB-400 or SB-300; i-TTL balanced fill-flash for digital SLR is used with matrix and center-weighted metering, standard i-TTL flash for digital SLR with spot metering ➢ Flash modes: Auto, auto with red-eye reduction, auto slow sync, auto slow sync with red-eye reduction, fill-flash, red-eye reduction, slow sync, slow sync with red-eye reduction, rear-curtain with slow sync, rear-curtain sync, off; auto FP high-speed sync supported			

	➢ Flash compensation: -3 to +1 EV in increments of 1/3 or 1/2 EV ➢ Flash bracketing: 2 to 3 frames in steps of 1/3, 1/2, 2/3, 1, 2 or 3 EV ➢ Flash-ready indicator: Lights when built-in flash or optional flash unit is fully charged; flashes after flash is fired at full output ➢ Accessory shoe: ISO 518 hot-shoe with sync and data contacts and safety lock ➢ Sync terminal: AS-15 Sync Terminal Adapter (available separately) • **White Balance** ➢ White balance: Auto (2 types), incandescent, fluorescent (7 types), direct sunlight, flash, cloudy, shade, preset manual (up to 4 values can be stored), choose color temperature (2,500 K to 10,000 K); all with fine-tuning ➢ White balance bracketing: 2 to 3 frames in steps of 1, 2 or 3 • **Live View** ➢ Modes: Live view photography (stil images), movie live view (movies) ➢ Lens servo: Autofocus (AF): Single-servo AF (AF-S); full-time servo AF (AF-F), Manual focus (M) ➢ AF-area modes: Face-priority AF, wide-area AF, normal-area AF, subject-tracking AF ➢ Autofocus: Contrast-detect AF anywhere in frame (camera selects focus point automatically when face-priority AF or subject-tracking AF is selected) • **Movie** ➢ Metering: TTL exposure metering using main image sensor ➢ Metering method: Matrix ➢ Frame size (pixels) and frame rate: 1,920 x 1,080; 30p (progressive), 25p, 24p 1,280 x 720; 60p, 50p, 30p, 25p Actual frame rates for 60p, 50p, 30p, 25p, and 24p are 59.94, 50, 29.97, 25, and 23.976 fps respectively; options support both ★ high and normal image			

	quality ➢ File format: MOV ➢ Video compression: H.264/MPEG-4 Advanced Video Coding ➢ Audio recording format: Linear PCM ➢ Audio recording device: Built-in monaural or external stereo microphone; sensitivity adjustable ➢ Maximum length: Approx. 29 min. 59 s (20 min. depending on frame size/rate and movie quality settings) ➢ Other options: Index marking, time-lapse photography • **Monitor** ➢ Monitor: Monitor 8-cm (3.2-in.), approx. 921k-dot (VGA), low-temperature polysilicon TFT LCD with approx. 170° viewing angle, approx. 100% frame coverage, and automatic monitor brightness control using ambient brightness sensor • **Playback** ➢ Playback: Full-frame and thumbnai (4, 9, 72 images or calendar) playback with playback zoom, movie playback, photo and/or movie slide shows, histogram display, highlights, photo information, GPS data display and auto image rotation • **Interface** ➢ USB: Hi-Speed USB ➢ HDMI output: Type C mini-pin HDMI connector ➢ Accessory terminal: Remote cord: MC-DC2 (available separately) GPS unit: GP-1/GP-1A (available separately) ➢ Audio input: Stereo mini-pin jack (3.5-mm diameter; plug-in power supported) ➢ Audio output: Stereo mini-pin jack (3.5-mm diameter) • **Supported Languages** ➢ Supported Languages: Arabic, Chinese (Simplified and Traditional), Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hindi,			

	Hungarian, Indonesian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (Portugal and Brazil), Romanian, Russian, Spanish, , Swedish, Thai, Turkish, Ukrainian • **Power source** ➢ Battery: One EN-EL15 Rechargeable Li-ion Battery ➢ Battery pack: Optional MB-D14 Multi-Power Battery Pack with one EN-EL15 Rechargeable Li-ion Battery or six AA alkaline, Ni-MH, or lithium batteries ➢ AC adapter: EH-5b AC Adapter; requires EP-5B Power Connector (available separately) • **Tripod Socket** ➢ Tripod socket: 1/4 in. (ISO 1222) • **Dimensions / Weight** ➢ Dimensions (W x H x D): Approx. 141 x 113 x 82 mm/ 5.6 x 4.4 x 3.2 in. ➢ Weight: Approx. 850 g/1 lb 14.0 oz with battery and memory card but without body cap; approx. 760 g/1 lb 10.8 oz (camera body only) • **Operating environment** ➢ Operating environment: Temperature: 0 to 40°C/32 to 104°F; humidity: 85% or less (no condensation) • **Accessories** ➢ Supplied accessories (may differ by country or area): EN-EL15 Rechargeable Li-ion Battery, MH-25 Battery Charger, DK-5 Eyepiece Cap, DK-21 Rubber Eyecup, UC-E15 USB Cable, AN-DC10 Camera Strap, BM-14 LCD Monitor Cover, BF-1B Body Cap, BS-1 Accessory Shoe Cover, ViewNX 2 CD-ROM			
	F. DSLR Camera Lens ➢ Focal Length Range: 24 -70 mm ➢ Maximum Aperture: f/ 2.8 ➢ Format: FX/35mm ➢ Nano Crystal Coat: Yes ➢ AF-S (Silent Wave Motor): Yes ➢ Approx. Dimensions: (Diameter x Length) 3.3 in. (83 mm) x 5.2 in. (133 mm)			

	➢ Approx. Weight: 31.7 oz. (900 g) • **Other Specifications:** ➢ Focal Length Range: 24 -70 mm ➢ Zoom Ratio: 2.9 x ➢ Maximum Aperture: f/ 2.8 ➢ Minimum Aperture: f/ 22 ➢ Format: FX/35mm ➢ Maximum Angle of View: (DX-format) 61° ➢ Minimum Angle of View: (DX-format) 22°50' ➢ Maximum Angle of View: (FX-format) 84° ➢ Minimum Angle of View: (FX-format) 34°20' ➢ Maximum Reproduction Ratio: 0.27x ➢ Lens Elements: 15 ➢ Lens Groups: 11 ➢ Compatible Format(s): FX, DX, FX in DX Crop Mode 35mm Film ➢ Diaphragm Blades: 9 ➢ Distance Information: Yes ➢ Nano Crystal Coat: Yes ➢ ED Glass Elements: 3 ➢ Aspherical Elements: 3 ➢ Super Integrated Coating: Yes ➢ Autofocus: Yes ➢ AF-S (Silent Wave Motor): Yes ➢ Internal Focusing: Yes ➢ Minimum Focus Distance: 1.2 ft. (0.38 m) ➢ Focus Mode: Auto, Manual, Manual/Auto ➢ G-type: Yes ➢ Filter Size: 77 mm ➢ Accepts Filter Type: Screw-on			
	G. DSLR Camera 2 (Body only) - **Type** - Type of camera: Single-lens reflex digital camera - Lens mount: F mount (with AF coupling and AF contacts) - Effective angle of view: DX format; focal length in 35mm [135] format equivalent to approx. 1.5x that of lenses with FX-format angle of view - **Effective pixels** - Effective pixels: 24.1 million - **Image sensor** - Image sensor: 23.5 x 15.6 mm CMOS sensor			

	- Total pixels: 24.71 million - Dust-reduction system: Image Sensor Cleaning, Image Dust Off reference data (optional Capture NX 2 software required) - **Storage** - Image size (pixels): - DX (24x16) image area: 6000 x 4000 [L], 4496 x 3000 [M], 2992 x 2000 [S] - 1.3x (18x12) image area: 4800 x 3200 [L], 3600 x 2400 [M], 2400 x 1600 [S] - Photographs with image area of DX (24x16) taken in movie live view: 6000 x 3368 [L], 4496 x 2528 [M], 2992 x 1680 [S] - Photographs with image area of 1.3x (18x12) taken in movie live view: 4800 x 2696 [L], 3600 x 2024 [M], 2400 x 1344 [S] ➢ File format: - NEF (RAW): 12 or 14 bit, lossless compressed or compressed - JPEG: JPEG-Baseline compliant with fine (approx. 1:4), normal (approx. 1:8) or basic (approx. 1:16) compression (Size priority); Optimal quality compression available - NEF (RAW)+JPEG: Single photograph recorded in both NEF (RAW) and JPEG formats ➢ Picture Control System: Standard, Neutral, Vivid, Monochrome, Portrait, Landscape; selected Picture Control can be modified; storage for custom Picture Controls ➢ Media: SD (Secure Digital) and UHS-I compliant SDHC and SDXC memory cards ➢ Double slot: Slot 2 can be used for overflow or backup storage or for separate storage of copies created using NEF+JPEG; pictures can be copied between cards ➢ File system: DCF (Design Rule for Camera File System) 2.0, DPOF (Digital Print Order Format), Exif (Exchangeable Image File Format for Digital Still Cameras) 2.3, PictBridge • **View Finder**			

	➢ View finder: Eye-level pentaprism single-lens reflex viewfinder ➢ Frame coverage: Approx. 100% horizontal and 100% vertical ➢ Magnification: Approx. 0.94x (50 mm f/1.4 lens at infinity, -1.0 m^{-1}) ➢ Eyepoint: 19.5 mm (-1.0 m^{-1}; from center surface of viewfinder eyepiece lens) ➢ Diopter adjustment: -2 to +1 m^{-1} ➢ Focusing screen: Type B BriteView Clear Matte Mark II screen with AF area brackets (framing grid can be displayed) ➢ Reflex mirror: Quick return ➢ Depth-of-field preview: Pressing depth-of-field preview button stops lens aperture down to value selected by user (**A** and **M** modes) or by camera (other modes) ➢ Lens aperture: Instant return, electronically controlled • **Lens** ➢ Compatible lenses: Compatible with AF NIKKOR lenses, including type G and D lenses (some restrictions apply to PC lenses) and DX lenses, AI-P NIKKOR lenses, and non-CPU AI lenses (**A** and **M** modes only); IX-NIKKOR lenses, lenses for the F3AF, and non-AI lenses cannot be used The electronic rangefinder can be used with lenses that have a maximum aperture of f/5.6 or faster (the electronic rangefinder supports the center focus point with lenses that have a maximum aperture of f/8 or faster) • Shutter: ➢ Type: Electronically controlled vertical-travel focal-plane shutter ➢ Speed: 1/8000 to 30 s in steps of 1/3 or 1/2 EV, bulb, time, X250 ➢ Flash sync speed: X=1/250 s; synchronizes with shutter at 1/320 s or slower (flash range drops at speeds between 1/250 and 1/320 s) • **Release** ➢ Release modes: S (single frame), CL (continuous low speed), CH			

	(continuous high speed), Q (quiet shutter release), ⏲ (self-timer), MUP (mirror up); interval timer photography supported ➢ Approximate frame advance rate: - JPEG and 12-bit NEF (RAW) images recorded with DX (24x16) selected for image area: CL 1 to 6 fps, CH 6 fps - JPEG and 12-bit NEF (RAW) images recorded with 1.3x (18x12) selected for image area: CL 1 to 6 fps, CH 7 fps - 14-bit NEF (RAW) images recorded with DX (24x16) selected for image area: CL 1 to 5 fps, CH 5 fps - 14-bit NEF (RAW) images recorded with 1.3x (18x12) selected for image area: CL 1 to 6 fps, CH 6 fps ➢ Self-timer: 2 s, 5 s, 10 s, 20 s; 1 to 9 exposures at intervals of 0.5, 1, 2 or 3 s ➢ Remote control modes (ML-L3): Delayed remote, quick-response remote, remote mirror-up • **Exposure** ➢ Metering mode: TTL exposure metering using 2016-pixel RGB sensor ➢ Metering method: - Matrix: 3D color matrix metering II (type G and D lenses); color matrix metering II (other CPU lenses); color matrix metering available with non-CPU lenses if user provides lens data - Center-weighted: Weight of 75% given to 8-mm circle in center of frame; diameter of circle can be changed to 6, 10, or 13 mm, or weighting can be based on average of entire frame (non-CPU lenses use 8-mm circle) - Spot: Meters 3.5-mm circle (about 2.5% of frame) centered on selected focus point (on center focus point when non-CPU lens is used)			

	➢ Range (ISO 100, f/1.4 lens, 20°C/68°F): - Matrix or center-weighted metering: 0 to 20 EV - Spot metering: 2 to 20 EV ➢ Exposure meter coupling: Combined CPU and AI ➢ Exposure modes: Auto modes (AUTO auto; auto [flash off]); programmed auto with flexible program (P); shutter-priority auto (S); aperture-priority auto (A); manual (M); scene modes (portrait; landscape; child; sports; close up; night portrait; night landscape; party/indoor; beach/snow; sunset; dusk/dawn; pet portrait; candlelight; blossom; autumn colors; food); special effects modes (night vision; color sketch; miniature effect; selective color; silhouette; high key; low key); U1 user settings 1); U2 user settings 2) ➢ Exposure compensation: Can be adjusted by -5 to +5 EV in increments of 1/3 or 1/2 EV in P , S , A and M modes ➢ Exposure bracketing: 2 to 5 frames in steps of 1/3, 1/2, 2/3, 1, 2 or 3 EV ➢ Exposure lock: Luminosity locked at detected value with AE-L AF-L AE-L/AF-L button ➢ ISO sensitivity (Recommended Exposure Index): ISO 100 to 6400 in steps of 1/3 EV; can also be set to approx. 0.3, 0.5, 0.7, 1 or 2 EV (ISO 25600 equivalent) above ISO 6400; auto ISO sensitivity control available ➢ Active D-lighting: Auto, extra high, high, normal, low, off ➢ ADL Bracketing: 2 frames using selected value for one frame or 3 frames using preset values for all			

	frames • Focus ➢ Autofocus: Advanced Multi-CAM 3500DX autofocus sensor module with TTL phase detection, fine-tuning, 51 focus points (including 15 cross-type sensors; the center point is available at apertures slower than f/5.6 and faster than f/8 or at f/8), and AF-assist illuminator (range approx. 0.5 to 3 m/1 ft 8 in. to 9 ft 10 in.) ➢ Detection range: -2 to +19 EV (ISO 100, 20°C/68°F) ➢ Lens servo: Autofocus (AF): Single-servo AF (AF-S); continuous-servo AF (AF-C); auto AF-S/AF-C selection (AF-A); predictive focus tracking activated automatically according to subject status Manual focus (M): Electronic rangefinder can be used ➢ Focus point: Can be selected from 51 or 11 focus points ➢ AF-area modes: Single-point AF, 9-, 21- or 51-point dynamic-area AF, 3D-tracking, auto-area AF ➢ Focus lock: Focus can be locked by pressing shutter-release button halfway (single-servo AF) or by pressing AE-L/AF-L AE-L/AF-L button • **Flash** ➢ Built in flash: AUTO, , , , , , , : Auto flash with auto pop-up P , S , A , M , : Manual pop-up with button release ➢ Guide number: Approx. 12/39, 12/39 with manual flash (m/ft, ISO 100, 20°C/68°F) ➢ Flash control: TTL: i-TTL flash control using 2016-pixel RGB sensor is available with built-in flash and SB-910, SB-900, SB-800, SB-700, SB-600 or SB-400; i-TTL balanced fill-flash for digital SLR is used with matrix and center-weighted metering, standard i-TTL flash for digital SLR with spot metering ➢ Flash modes: Auto, auto with red-			

	eye reduction, auto slow sync, auto slow sync with red-eye reduction, fill-flash, red-eye reduction, slow sync, slow sync with red-eye reduction, rear-curtain with slow sync, rear-curtain sync, off; Auto FP High-Speed Sync supported ➢ Flash compensation: -3 to +1 EV in increments of 1/3 or 1/2 EV ➢ Flash bracketing: 2 to 5 frames in steps of 1/3, 1/2, 2/3, 1, 2 or 3 EV ➢ Flash ready indicator: Lights when built-in flash or optional flash unit is fully charged; flashes after flash is fired at full output ➢ Accessory shoe: ISO 518 hot-shoe with sync and data contacts and safety lock ➢ Sync terminal: AS-15 Sync Terminal Adapter (available separately) • **White Balance** ➢ White balance: Auto (2 types), incandescent, fluorescent (7 types), direct sunlight, flash, cloudy, shade, preset manual (up to 6 values can be stored, Spot White Balance measurement available during live view), choose color temperature (2500 K to 10000 K), all with fine-tuning ➢ White balance bracketing: 2 to 5 frames in steps of 1, 2 or 3 • **Live View** ➢ Modes: Live view photography (still images), movie live view (movies) ➢ Lens servo: Autofocus (AF): Single-servo AF (AF-S); full-time servo AF (AF-F) Manual focus (M) ➢ AF-Area modes: Face-priority AF, wide-area AF, normal-area AF, subject-tracking AF ➢ Autofocus: Contrast-detect AF anywhere in frame (camera selects focus point automatically when face-priority AF or subject-tracking AF is selected) • Movie ➢ Metering: TTL exposure metering using main image sensor			

	➢ Metering method: Matrix - Frame size (pixels) and frame rate: - 1920 x 1080; 60i (59.94 fields/s)/50i (50 fields/s)* - 1920 x 1080; 30p (progressive), 25p, 24p - 1280 x 720; 60p, 50p - Actual frame rates for 60p, 50p, 30p, 25p and 24p are 59.94, 50, 29.97, 25 and 23.976 fps respectively; options support both ★high and normal image quality - *Available only when 1.3x (18x12) is selected for image area; sensor output is about 60 or 50 fps ➢ File format: MOV ➢ Video compression: H.264/MPEG-4 Advanced Video Coding ➢ Audio recording format: Linear PCM ➢ Audio recording device: Built-in or external stereo microphone; sensitivity adjustable ➢ Maximum length: 29 min. 59 s • **Monitor** ➢ Monitor: 8-cm/3.2-in., approx. 1229k-dot (VGA; 640 x 480 x 4 = 1,228,800 dots), TFT monitor with approx. 170° viewing angle, approx. 100% frame coverage and brightness adjustment • **Playback** ➢ Playback: Full-frame and thumbnail (4, 9, or 72 images or calendar) playback with playback zoom, movie playback, photo and/or movie slide shows, histogram display, highlights, photo information, GPS data display and auto image rotation • **Interface** ➢ USB: Hi-Speed USB ➢ HDMI output: HDMI mini connector (Type C) ➢ Accessory terminal: Wireless remote controller: WR-1 and WR-R10 (available separately), Remote cord: MC-DC2 (available separately), GPS unit: GP-1/GP-1A (available separately)			

	➢ Audio input: Stereo mini-pin jack (3.5-mm diameter; plug-in power supported) ➢ Audio output: Stereo mini-pin jack (3.5-mm diameter) ➢ Supported languages: Arabic, Bengali, Chinese (Simplified and Traditional), Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hindi, Hungarian, Indonesian, Italian, Japanese, Korean, Norwegian, Persian, Polish, Portuguese (European and Brazilian), Romanian, Russian, Spanish, Swedish, Tamil, Thai, Turkish, Ukrainian, Vietnamese • **Power Source** ➢ Battery: One EN-EL15 Rechargeable Li-ion Battery ➢ Battery Pack: Optional MB-D15 Multi-Power Battery Pack with one EN-EL15 Rechargeable Li-ion Battery or six AA-size alkaline, Ni-MH or lithium batteries ➢ AC adapter: EH-5b AC Adapter; requires EP-5B Power Connector (available separately) • **Tripod socket** ➢ Tripod socket: 1/4 in. (ISO 1222) ➢ **Dimensions / Weight** ➢ Dimensions (HxWxD): Approx. 135.5 x 106.5 x 76 mm/5.3 x 4.2 x 3.0 in. ➢ Weight: Approx. 765 g/1 lb 11.0 oz with battery and memory card but without body cap; approx. 675 g/1 lb 7.8 oz (camera body only) • **Operating Environment** ➢ Operating environment: Temperature: 0 to 40°C/32 to 104°F; humidity: 85% or less (no condensation) • **Accessories** ➢ Supplied accessories (may differ by country or area): EN-EL15 Rechargeable Li-ion Battery, MH-25 Battery Charger, DK-5 Eyepiece Cap, DK-23 Rubber Eyecup, UC-E6 USB Cable, AN-DC1 BK Camera Strap, BF-1B Body Cap, BS-1 Accessory Shoe Cover, ViewNX 2 CD-ROM			

	H. Laptop Computer • **Specifications** ➢ Intel Core i5-7200UProcessor, 2.5GHz (3M Cache, up to 3.1 GHz) ➢ Windows 10 (64bit) ➢ 14.0'//LED Back-lit//Ultra Slim 300nits//FHD 1920x1080 16:9//Anti-Glare//NTSC:72%//WV ➢ DDR4 4GB ➢ 4G ➢ SATA3 256G M.2 SSD ➢ HDMI 1.4 ➢ Discrete ➢ NVIDIA GeForce 940MX (N16S-GTR) ➢ Intel HD graphics 620 ➢ GDDR3 2GB ➢ HD Web Camera ➢ 802.11ac+Bluetooth 4.1 (Dual band) 2*2 ➢ Sepc: SD, MMC ➢ 1 x USB 2.0 ➢ 1 x USB 3.0 ➢ 1 x USB 3.1 Type C (gen 1) ➢ 1 x Headphone-out & Audio-in Combo Jack ➢ 1 x micro HDMI ➢ 1 x smart card reader ➢ Built-in speaker ➢ Built-in microphone ➢ Audio by ICEpower ➢ 1.00 KG (without battery) ➢ 1.30 KG (with 3 cell battery) ➢ 32.4(W) x 22.5(D) x 1.59 ~ 1.59 (H) cm ➢ 65W AC adapter ➢ Output: 19V DC, 3.42A, 65W ➢ Input: 100~240V AC, 50/60 Hz universal ➢ 50WHrs, 3S1P, 3-cell Li-on ➢ Illuminated Chiclet keyboard ➢ ASUS Screen saver ➢ ASUS Smart Gesture ➢ ASUS Splendid ➢ TPM (Firmware TPM) ➢ HDD User password protection and security ➢ BIOS Booting User Password Protection ➢ Sleeve			

	➢ Laptop Bag			
	I. Wireless Mouse ➢ Sensor: Laser sensor(1600 CPI max) ➢ Buttons: Two primary buttons and Clickable scroll wheel ➢ USB: Wireless receiver at 2.4 GHz ➢ With battery			
	J. Warranty ➢ One (1) year on parts and Three (3) years on service			
			* Inclusive of Delivery and Installation	
			Total (inclusive of VAT)	

(Amount in Words) _____

_____

The above-quoted prices are inclusive of all costs and applicable taxes.

Very truly yours,

_____
Name/Signature of Representative

_____
Name of Company

_____
Contact No.

TECHNICAL SPECIFICATIONS

Item	Technical Specifications	STATEMENT OF COMPLIANCE
	Supply, Delivery, Installation and Testing of Media Kit	
I.	**Memory Card** ➢ Memory: 16GB ➢ Type: SD(Secure Digital Card)	
II.	**Mobile phone tripod** ➢ Weight: 100 g ➢ Type: Flexible tripod ➢ Max extended length: 20-50 mm ➢ Folded length: 20-50 mm ➢ Use: Video camera ➢ Material: Plastic ➢ Color: Black ➢ With mobile phone tripod mount, long bolt and nut	
III.	**DSLR Camera tripod** ➢ Maximum load: 8.8 lb (4 kg) ➢ Max height (24° leg angle) w/ column extended: 69.7 in (177 cm) ➢ Max height (24° leg angle) w/ column retracted: 62.6 in (159 cm) ➢ Minimum height: 16.34 in (41.5 cm) ➢ Maximum height: 69.7 in (177 cm) ➢ Folded length: 31.1 in (79 cm) ➢ Number of leg sections: 3 ➢ Leg log type: Flip lock ➢ Independent leg spread: Yes - with 3 stops ➢ Quick release (QR) plate: Slide-In Video (QR6) 1/4-20 & 3/8 ➢ Head mount thread size: 3/8-16 Leveling ➢ Weight: 5.73 lb (2.6 kg) ➢ Leg diameter 1: 28.6 mm ➢ Leg diameter 2: 25.2 mm ➢ Leg diameter 3: 21.8 mm	
IV.	**Mobile camera stabilizer** ➢ Dimension: 2.4×1.9×6.4 inch (61.8×48.2×161.5 mm) ➢ Weight (including battery): 201g ➢ Weight (including gimbal): 501g • **Battery** ➢ LiPo ➢ Capacity: 980 mAh ➢ Energy: 10.8 Wh ➢ Voltage: 11.1V ➢ Charging Temperature: ➢ 5° to 40° C (41° to 104° F)	

	➢ 0° to 40° C (32° to 104° F) • **Gimbal** ➢ Dimensions: - 4.92×4.29×3.57 inch (Folded) - 125.06×109.15×90.98 mm ➢ Weight: 300 g ➢ Consumption: 2.5 W ➢ Angular Vibration Range: ±0.03° ➢ Controllable Range: - Pan : ±150° - Roll : ±25° - Tilt : -125° to +35° ➢ Mechanical Range: - Pan : ±165° - Roll : -50° to +90° - Tilt : -140° to +50° ➢ Max Controllable Speed: 120°/s ➢ Mobile Phone Width Range: - 2.31-3.34 inch (58.6-84.8 mm) • **Wireless** ➢ Model: Bluetooth low energy 4.0	
V.	**DSLR Camera 1 (Body only)** • **Camera Specifications** ➢ Type: Single-lens reflex digital camera ➢ Lens mount: F mount (with AF coupling and AF contacts) ➢ Effective pixels: 24.3 million ➢ Image sensor: 35.9 x 24.0 mm CMOS sensor (FX format) - Total pixels: 24.7 million ➢ Dust-reduction system: Image sensor cleaning, Image Dust Off reference data (optional Capture NX 2 software required) • **Storage** ➢ Image size (pixels): - FX format (36x24): 6,016 x 4,016 (L), 4,512 x 3,008 (M), 3,008 x 2,008 (S) - DX format (24x16): 3,936 x 2,624 (L), 2,944 x 1,968 (M), 1,968 x 1,312 (S) - FX-format photographs taken in movie live view: 6,016 x 3,376 (L), 4,512 x 2,528 (M), 3,008 x 1,688 (S) - DX-format photographs taken in movie live view: 3,936 x 2,224 (L), 2,944 x 1,664 (M), 1,968 x 1,112 (S) ➢ File format: - NEF (RAW): 12 or 14 bit, lossless compressed or compressed - JPEG: JPEG-Baseline compliant with fine (approx. 1:4), normal (approx. 1:8) or basic (approx. 1:16) compression (Size priority); Optimal quality compression available - NEF (RAW)+JPEG: Single photograph recorded in both NEF (RAW) and JPEG formats ➢ Picture Control System: Standard, Neutral, Vivid, Monochrome, Portrait, Landscape; selected Picture Control can be modified; storage for custom Picture Controls	

- Media: SD (Secure Digital) and UHS-I compliant SDHC and SDXC memory cards
- Dual card slots: Slot 2 can be used for overflow or backup storage or for separate storage of copies created using NEF+JPEG; pictures can be copied between cards
- File System: DCF (Design Rule for Camera File System) 2.0, DPOF (Digital Print Order Format), Exif (Exchangeable Image File Format for Digital Still Cameras) 2.3, PictBridge

- **View Finder**
  - View Finder: Eye-level pentaprism single-lens reflex viewfinder
  - Frame coverage:
    - FX (36x24): Approx. 100% horizontal and 100% vertical
    - DX (24x16): Approx. 97% horizontal and 97% vertical
  - Magnification: Approx. 0.7x (50 mm f/1.4 lens at infinity, -1.0 m^{-1})
  - Eyepoint: 21 mm (-1.0 m^{-1}; from center surface of viewfinder eyepiece lens)
  - Diopter adjustment: -3 to +1 m^{-1}
  - Focusing screen: Type B BriteView Clear Matte Mark VIII screen with AF area brackets (framing grid can be displayed)
  - Reflex mirror: Quick return
  - Depth-of-field preview: Pressing depth-of-field preview button stops lens aperture down to value selected by user (A and M modes) or by camera (other modes)
  - Lens aperture: Instant return, electronically controlled
- **Lens**
  - Compatible lenses: Compatible with AF NIKKOR lenses, including type G,E and D lenses (some restrictions apply to PC lenses), DX lenses [using DX (24x16) image area], AI-P NIKKOR lenses, and non-CPU AI lenses (A and M modes only); IX-NIKKOR lenses, lenses for the F3AF, and non-AI lenses cannot be used. The electronic rangefinder can be used with lenses that have a maximum aperture of f/5.6 or faster (the electronic rangefinder supports the center 7 focus points with lenses that have a maximum aperture of f/8 or faster and the center 33 focus points with lenses that have a maximum aperture of f/6.8 or faster)
- **Shutter**
  - Type: Electronically-controlled vertical-travel focal-plane shutter
  - Speed: 1/4,000 to 30 s in steps of 1/3 or 1/2 EV, bulb, time (requires optional ML-L3 Remote Control), X200
  - Flash sync speed: X=1/200 s; synchronizes with shutter at 1/250 s or slower (flash range drops at speeds between 1/200 and 1/250 s)
- **Release**
  - Release Modes: S (single frame), CL (continuous low speed), CH (continuous high speed), Q (quiet shutter-release), QC (quiet continuous shutter-release), ⏲ (self-timer), (remote control), MUP (mirror up)
  - Frame advance rate: Approx. 1 to 5 fps (CL), approx. 6 fps

(CH) or 3 fps (QC)

- Self-timer: 2 s, 5 s, 10 s, 20 s; 1 to 9 exposures at intervals of 0.5, 1, 2 or 3 s
- Remote release modes: Delayed remote, quick-response remote, remote mirror-up

- **Exposure**
  - Metering: TTL exposure metering using 2,016-pixel RGB sensor
  - Metering method:
    - Matrix: 3D color matrix metering II (type G,E and D lenses); color matrix metering II (other CPU lenses); color matrix metering available with non-CPU lenses if user provides lens data
    - Center-weighted: Weight of 75% given to 12-mm circle in center of frame; diameter of circle can be changed to 8, 15 or 20 mm, or weighting can be based on average of entire frame (non-CPU lenses use 12-mm circle or average of entire frame)
  - Spot: Meters 4-mm circle (about 1.5% of frame) centered on selected focus point (on center focus point when non-CPU lens is used)
  - Range: (ISO 100, f/1.4 lens, 20°C/68°F)
    - Matrix or center-weighted metering: 0 to 20 EV
    - Spot metering: 2 to 20 EV
  - Exposure meter coupling: Combined CPU and AI
  - Exposure modes: Auto (auto; auto [flash off]), scene (portrait, landscape, child, sports, close up, night portrait, night landscape, party/indoor, beach/snow, sunset, dusk/dawn, pet portrait, candlelight, blossom, autumn colors, food, silhouette, high key, low key), programmed auto with flexible program (P), shutter-priority auto (S), aperture-priority auto (A), manual (M), U1 (user settings 1), U2 (user settings 2)
  - Exposure compensation: Can be adjusted by -5 to +5 EV in increments of 1/3 or 1/2 EV in P, S, A and M modes
  - Exposure bracketing: 2 to 3 frames in steps of 1/3, 1/2, 2/3, 1, 2 or 3 EV
  - Exposure lock: Luminosity locked at detected value with AE-L/AF-L button
  - ISO sensitivity (Recommended Exposure Index): ISO 100 to 6400 in steps of 1/3 or 1/2 EV; can also be set to approx. 0.3, 0.5, 0.7 or 1 EV (ISO 50 equivalent) below ISO 100 or to approx. 0.3, 0.5, 0.7, 1 or 2 EV (ISO 25600 equivalent) above ISO 6400; auto ISO sensitivity control available
  - Active D-Lighting: Auto, Extra high, High, Normal, Low, Off
  - ADL bracketing 2 frames using selected value for one frame or 3 frames using preset values for all frames
- **Focus**
  - Autofocus: Multi-CAM 4800 autofocus sensor module with TTL phase detection, fine-tuning, 39 focus points (including

9 cross-type sensors; the center 33 points are available at apertures slower than f/5.6 and faster than f/8, while the center 7 points are available at f/8), and AF-assist illuminato (range approx. 0.5 to 3 m/1 ft 8 in. to 9 ft 10 in.)

- Detection range: -1 to +19 EV (ISO 100, 20°C/68°F)
- Lens servo:
  - Autofocus (AF): Single-servo AF (AF-S); continuous-servo AF (AF-C); auto AF-S/AF-C selection (AF-A); predictive focus tracking activated automatically according to subject status
  - Manual focus (M): Electronic rangefinder can be used
- Focus point: Can be selected from 39 or 11 focus points
- AF-area modes: Single-point AF, 9-, 21- or 39-point dynamic-area AF, 3D-tracking, auto-area AF
- Focus lock: Focus can be locked by pressing shutter-release button halfway (single-servo AF) or by pressing AE-L/AF-L button

- **Flash**
  - Built in flash: AUTO, , , , , , : Auto flash with auto pop-up P, S, A, M, : Manual pop-up with button release
  - Guide number: Approx. 12/39, 12/39 with manual flash (m/ft, ISO 100, 20°C/68°F)
  - Flash control: TTL: i-TTL flash control using 2,016-pixel RGB sensor is available with built-in flash and SB-910, SB-900, SB-800, SB-700, SB-600, SB-400 or SB-300; i-TTL balanced fill-flash for digital SLR is used with matrix and center-weighted metering, standard i-TTL flash for digital SLR with spot metering
  - Flash modes: Auto, auto with red-eye reduction, auto slow sync, auto slow sync with red-eye reduction, fill-flash, red-eye reduction, slow sync, slow sync with red-eye reduction, rear-curtain with slow sync, rear-curtain sync, off; auto FP high-speed sync supported
  - Flash compensation: -3 to +1 EV in increments of 1/3 or 1/2 EV
  - Flash bracketing: 2 to 3 frames in steps of 1/3, 1/2, 2/3, 1, 2 or 3 EV
  - Flash-ready indicator: Lights when built-in flash or optional flash unit is fully charged; flashes after flash is fired at full output
  - Accessory shoe: ISO 518 hot-shoe with sync and data contacts and safety lock
  - Sync terminal: AS-15 Sync Terminal Adapter (available separately)
- **White Balance**
  - White balance: Auto (2 types), incandescent, fluorescent (7 types), direct sunlight, flash, cloudy, shade, preset manual (up to 4 values can be stored), choose color temperature (2,500 K to 10,000 K); all with fine-tuning
  - White balance bracketing: 2 to 3 frames in steps of 1, 2 or 3
- **Live View**

- Modes: Live view photography (still images), movie live view (movies)
- Lens servo: Autofocus (AF): Single-servo AF (AF-S); full-time servo AF (AF-F), Manual focus (M)
- AF-area modes: Face-priority AF, wide-area AF, normal-area AF, subject-tracking AF
- Autofocus: Contrast-detect AF anywhere in frame (camera selects focus point automatically when face-priority AF or subject-tracking AF is selected)

- **Movie**
  - Metering: TTL exposure metering using main image sensor
  - Metering method: Matrix
  - Frame size (pixels) and frame rate: 1,920 x 1,080; 30p (progressive), 25p, 24p 1,280 x 720; 60p, 50p, 30p, 25p Actual frame rates for 60p, 50p, 30p, 25p, and 24p are 59.94, 50, 29.97, 25, and 23.976 fps respectively; options support both ★ high and normal image quality
  - File format: MOV
  - Video compression: H.264/MPEG-4 Advanced Video Coding
  - Audio recording format: Linear PCM
  - Audio recording device: Built-in monaural or external stereo microphone; sensitivity adjustable
  - Maximum length: Approx. 29 min. 59 s (20 min. depending on frame size/rate and movie quality settings)
  - Other options: Index marking, time-lapse photography
- **Monitor**
  - Monitor: Monitor 8-cm (3.2-in.), approx. 921k-dot (VGA), low-temperature polysilicon TFT LCD with approx. 170° viewing angle, approx. 100% frame coverage, and automatic monitor brightness control using ambient brightness sensor
- **Playback**
  - Playback: Full-frame and thumbnail (4, 9, 72 images or calendar) playback with playback zoom, movie playback, photo and/or movie slide shows, histogram display, highlights, photo information, GPS data display and auto image rotation
- **Interface**
  - USB: Hi-Speed USB
  - HDMI output: Type C mini-pin HDMI connector
  - Accessory terminal: Remote cord: MC-DC2 (available separately) GPS unit: GP-1/GP-1A (available separately)
  - Audio input: Stereo mini-pin jack (3.5-mm diameter; plug-in power supported)
  - Audio output: Stereo mini-pin jack (3.5-mm diameter)
- **Supported Languages**
  - Supported Languages: Arabic, Chinese (Simplified and Traditional), Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hindi, Hungarian, Indonesian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (Portugal and Brazil), Romanian, Russian, Spanish, , Swedish, Thai, Turkish, Ukrainian
- **Power source**

	➢ Battery: One EN-EL15 Rechargeable Li-ion Battery ➢ Battery pack: Optional MB-D14 Multi-Power Battery Pack with one EN-EL15 Rechargeable Li-ion Battery or six AA alkaline, Ni-MH, or lithium batteries ➢ AC adapter: EH-5b AC Adapter; requires EP-5B Power Connector (available separately) • **Tripod Socket** ➢ Tripod socket: 1/4 in. (ISO 1222) • **Dimensions / Weight** ➢ Dimensions (W x H x D): Approx. 141 x 113 x 82 mm/ 5.6 x 4.4 x 3.2 in. ➢ Weight: Approx. 850 g/1 lb 14.0 oz with battery and memory card but without body cap; approx. 760 g/1 lb 10.8 oz (camera body only) • **Operating environment** ➢ Operating environment: Temperature: 0 to 40°C/32 to 104°F; humidity: 85% or less (no condensation) • **Accessories** ➢ Supplied accessories (may differ by country or area): EN-EL15 Rechargeable Li-ion Battery, MH-25 Battery Charger, DK-5 Eyepiece Cap, DK-21 Rubber Eyecup, UC-E15 USB Cable, AN-DC10 Camera Strap, BM-14 LCD Monitor Cover, BF-1B Body Cap, BS-1 Accessory Shoe Cover, ViewNX 2 CD-ROM	
VI.	**DSLR Camera Lens** ➢ Focal Length Range: 24 -70 mm ➢ Maximum Aperture: f/ 2.8 ➢ Format: FX/35mm ➢ Nano Crystal Coat: Yes ➢ AF-S (Silent Wave Motor): Yes ➢ Approx. Dimensions: (Diameter x Length) 3.3 in. (83 mm) x 5.2 in. (133 mm) ➢ Approx. Weight: 31.7 oz. (900 g) • **Other Specifications:** ➢ Focal Length Range: 24 -70 mm ➢ Zoom Ratio: 2.9 x ➢ Maximum Aperture: f/ 2.8 ➢ Minimum Aperture: f/ 22 ➢ Format: FX/35mm ➢ Maximum Angle of View: (DX-format) 61° ➢ Minimum Angle of View: (DX-format) 22°50' ➢ Maximum Angle of View: (FX-format) 84° ➢ Minimum Angle of View: (FX-format) 34°20' ➢ Maximum Reproduction Ratio: 0.27 x ➢ Lens Elements: 15 ➢ Lens Groups: 11 ➢ Compatible Format(s): FX, DX, FX in DX Crop Mode 35mm Film ➢ Diaphragm Blades: 9 ➢ Distance Information: Yes ➢ Nano Crystal Coat: Yes ➢ ED Glass Elements: 3	

	➢ Aspherical Elements: 3 ➢ Super Integrated Coating: Yes ➢ Autofocus: Yes ➢ AF-S (Silent Wave Motor): Yes ➢ Internal Focusing: Yes ➢ Minimum Focus Distance: 1.2 ft. (0.38 m) ➢ Focus Mode: Auto, Manual, Manual/Auto ➢ G-type: Yes ➢ Filter Size: 77 mm ➢ Accepts Filter Type: Screw-on	
VII.	**DSLR Camera 2 (Body only)** • **Type** ➢ Type of camera: Single-lens reflex digital camera ➢ Lens mount: F mount (with AF coupling and AF contacts) ➢ Effective angle of view: DX format; focal length in 35mm [135] format equivalent to approx. 1.5x that of lenses with FX-format angle of view • **Effective pixels** ➢ Effective pixels: 24.1 million • **Image sensor** ➢ Image sensor: 23.5 x 15.6 mm CMOS sensor ➢ Total pixels: 24.71 million ➢ Dust-reduction system: Image Sensor Cleaning, Image Dust Off reference data (optional Capture NX 2 software required) • **Storage** ➢ Image size (pixels): - DX (24x16) image area: 6000 x 4000 [L], 4496 x 3000 [M], 2992 x 2000 [S] - 1.3x (18x12) image area: 4800 x 3200 [L], 3600 x 2400 [M], 2400 x 1600 [S] - Photographs with image area of DX (24x16) taken in movie live view: 6000 x 3368 [L], 4496 x 2528 [M], 2992 x 1680 [S] - Photographs with image area of 1.3x (18x12) taken in movie live view: 4800 x 2696 [L], 3600 x 2024 [M], 2400 x 1344 [S] ➢ File format: - NEF (RAW): 12 or 14 bit, lossless compressed or compressed - JPEG: JPEG-Baseline compliant with fine (approx. 1:4), normal (approx. 1:8) or basic (approx. 1:16) compression (Size priority); Optimal quality compression available - NEF (RAW)+JPEG: Single photograph recorded in both NEF (RAW) and JPEG formats ➢ Picture Control System: Standard, Neutral, Vivid, Monochrome, Portrait, Landscape; selected Picture Control can be modified; storage for custom Picture Controls ➢ Media: SD (Secure Digital) and UHS-I compliant SDHC and SDXC memory cards ➢ Double slot: Slot 2 can be used for overflow or backup storage or for separate storage of copies created using NEF+JPEG; pictures can be copied between cards ➢ File system: DCF (Design Rule for Camera File System) 2.0, DPOF (Digital Print Order Format), Exif (Exchangeable Image	

File Format for Digital Still Cameras) 2.3, PictBridge

- **View Finder**

➢ View finder: Eye-level pentaprism single-lens reflex viewfinder
➢ Frame coverage: Approx. 100% horizontal and 100% vertical
➢ Magnification: Approx. 0.94x (50 mm f/1.4 lens at infinity, -1.0 m^{-1})
➢ Eyepoint: 19.5 mm (-1.0 m^{-1}; from center surface of viewfinder eyepiece lens)
➢ Diopter adjustment: -2 to +1 m^{-1}
➢ Focusing screen: Type B BriteView Clear Matte Mark II screen with AF area brackets (framing grid can be displayed)
➢ Reflex mirror: Quick return
➢ Depth-of-field preview: Pressing depth-of-field preview button stops lens aperture down to value selected by user (**A** and **M** modes) or by camera (other modes)
➢ Lens aperture: Instant return, electronically controlled

- **Lens**

➢ Compatible lenses: Compatible with AF NIKKOR lenses, including type G and D lenses (some restrictions apply to PC lenses) and DX lenses, AI-P NIKKOR lenses, and non-CPU AI lenses (**A** and **M** modes only); IX-NIKKOR lenses, lenses for the F3AF, and non-AI lenses cannot be used
The electronic rangefinder can be used with lenses that have a maximum aperture of f/5.6 or faster (the electronic rangefinder supports the center focus point with lenses that have a maximum aperture of f/8 or faster)

- Shutter:

➢ Type: Electronically controlled vertical-travel focal-plane shutter
➢ Speed: 1/8000 to 30 s in steps of 1/3 or 1/2 EV, bulb, time, X250
➢ Flash sync speed: X=1/250 s; synchronizes with shutter at 1/320 s or slower (flash range drops at speeds between 1/250 and 1/320 s)

- **Release**

➢ Release modes: S (single frame), CL (continuous low speed), CH (continuous high speed), Q (quiet shutter release), ⏲ (self-timer), MUP (mirror up); interval timer photography supported
➢ Approximate frame advance rate:

- JPEG and 12-bit NEF (RAW) images recorded with DX (24x16) selected for image area: CL 1 to 6 fps, CH 6 fps
- JPEG and 12-bit NEF (RAW) images recorded with 1.3x (18x12) selected for image area: CL 1 to 6 fps, CH 7 fps
- 14-bit NEF (RAW) images recorded with DX (24x16) selected for image area: CL 1 to 5 fps, CH 5 fps
- 14-bit NEF (RAW) images recorded with 1.3x (18x12) selected for image area: CL 1 to 6 fps, CH 6 fps

➢ Self-timer: 2 s, 5 s, 10 s, 20 s; 1 to 9 exposures at intervals of 0.5, 1, 2 or 3 s

	➢ Remote control modes (ML-L3): Delayed remote, quick-response remote, remote mirror-up • **Exposure** ➢ Metering mode: TTL exposure metering using 2016-pixel RGB sensor ➢ Metering method: - Matrix: 3D color matrix metering II (type G and D lenses); color matrix metering II (other CPU lenses); color matrix metering available with non-CPU lenses if user provides lens data - Center-weighted: Weight of 75% given to 8-mm circle in center of frame; diameter of circle can be changed to 6, 10, or 13 mm, or weighting can be based on average of entire frame (non-CPU lenses use 8-mm circle) - Spot: Meters 3.5-mm circle (about 2.5% of frame) centered on selected focus point (on center focus point when non-CPU lens is used) ➢ Range (ISO 100, f/1.4 lens, 20°C/68°F): - Matrix or center-weighted metering: 0 to 20 EV - Spot metering: 2 to 20 EV ➢ Exposure meter coupling: Combined CPU and AI ➢ Exposure modes: Auto modes (auto; auto [flash off]); programmed auto with flexible program (P); shutter-priority auto (S); aperture-priority auto (A); manual (M); scene modes (portrait; landscape; child; sports; close up; night portrait; night landscape; party/indoor; beach/snow; sunset; dusk/dawn; pet portrait; candlelight; blossom; autumn colors; food); special effects modes (night vision; color sketch; miniature effect; selective color; silhouette; high key; low key); U1 user settings 1); U2 user settings 2) ➢ Exposure compensation: Can be adjusted by -5 to +5 EV in increments of 1/3 or 1/2 EV in P , S , A and M modes ➢ Exposure bracketing: 2 to 5 frames in steps of 1/3, 1/2, 2/3, 1, 2 or 3 EV ➢ Exposure lock: Luminosity locked at detected value with AE-L/AF-L AE-L/AF-L button ➢ ISO sensitivity (Recommended Exposure Index): ISO 100 to 6400 in steps of 1/3 EV; can also be set to approx. 0.3, 0.5, 0.7, 1 or 2 EV (ISO 25600 equivalent) above ISO 6400; auto ISO sensitivity control available ➢ Active D-lighting: Auto, extra high, high, normal, low, off ➢ ADL Bracketing: 2 frames using selected value for one frame or 3 frames using preset values for all frames • Focus ➢ Autofocus: Advanced Multi-CAM 3500DX autofocus sensor module with TTL phase detection, fine-tuning, 51 focus	

points (including 15 cross-type sensors; the center point is available at apertures slower than f/5.6 and faster than f/8 or at f/8), and AF-assist illuminator (range approx. 0.5 to 3 m/1 ft 8 in. to 9 ft 10 in.)

- Detection range: -2 to +19 EV (ISO 100, 20°C/68°F)
- Lens servo: Autofocus (AF): Single-servo AF (AF-S); continuous-servo AF (AF-C); auto AF-S/AF-C selection (AF-A); predictive focus tracking activated automatically according to subject status Manual focus (M): Electronic rangefinder can be used
- Focus point: Can be selected from 51 or 11 focus points
- AF-area modes: Single-point AF, 9-, 21- or 51-point dynamic-area AF, 3D-tracking, auto-area AF
- Focus lock: Focus can be locked by pressing shutter-release button halfway (single-servo AF) or by pressing AE-L/AF-L AE-L/AF-L button

- **Flash**

- Built in flash: AUTO, , , , , , , : Auto flash with auto pop-up P , S , A , M , : Manual pop-up with button release
- Guide number: Approx. 12/39, 12/39 with manual flash (m/ft, ISO 100, 20°C/68°F)
- Flash control: TTL: i-TTL flash control using 2016-pixel RGB sensor is available with built-in flash and SB-910, SB-900, SB-800, SB-700, SB-600 or SB-400; i-TTL balanced fill-flash for digital SLR is used with matrix and center-weighted metering, standard i-TTL flash for digital SLR with spot metering
- Flash modes: Auto, auto with red-eye reduction, auto slow sync, auto slow sync with red-eye reduction, fill-flash, red-eye reduction, slow sync, slow sync with red-eye reduction, rear-curtain with slow sync, rear-curtain sync, off; Auto FP High-Speed Sync supported
- Flash compensation: -3 to +1 EV in increments of 1/3 or 1/2 EV
- Flash bracketing: 2 to 5 frames in steps of 1/3, 1/2, 2/3, 1, 2 or 3 EV
- Flash ready indicator: Lights when built-in flash or optional flash unit is fully charged; flashes after flash is fired at full output
- Accessory shoe: ISO 518 hot-shoe with sync and data contacts and safety lock
- Sync terminal: AS-15 Sync Terminal Adapter (available separately)

- **White Balance**

- White balance: Auto (2 types), incandescent, fluorescent (7 types), direct sunlight, flash, cloudy, shade, preset manual (up to 6 values can be stored, Spot White Balance measurement available during live view), choose color temperature (2500 K to 10000 K), all with fine-tuning
- White balance bracketing: 2 to 5 frames in steps of 1, 2 or 3

- **Live View**

	➢ Modes: Live view photography (still images), movie live view (movies) ➢ Lens servo: Autofocus (AF): Single-servo AF (AF-S); full-time servo AF (AF-F) Manual focus (M) ➢ AF-Area modes: Face-priority AF, wide-area AF, normal-area AF, subject-tracking AF ➢ Autofocus: Contrast-detect AF anywhere in frame (camera selects focus point automatically when face-priority AF or subject-tracking AF is selected) • Movie ➢ Metering: TTL exposure metering using main image sensor ➢ Metering method: Matrix - Frame size (pixels) and frame rate: - 1920 x 1080; 60i (59.94 fields/s)/50i (50 fields/s)* - 1920 x 1080; 30p (progressive), 25p, 24p - 1280 x 720; 60p, 50p - Actual frame rates for 60p, 50p, 30p, 25p and 24p are 59.94, 50, 29.97, 25 and 23.976 fps respectively; options support both ★high and normal image quality - *Available only when 1.3x (18x12) is selected for image area; sensor output is about 60 or 50 fps ➢ File format: MOV ➢ Video compression: H.264/MPEG-4 Advanced Video Coding ➢ Audio recording format: Linear PCM ➢ Audio recording device: Built-in or external stereo microphone; sensitivity adjustable ➢ Maximum length: 29 min. 59 s • **Monitor** ➢ Monitor: 8-cm/3.2-in., approx. 1229k-dot (VGA; 640 x 480 x 4 = 1,228,800 dots), TFT monitor with approx. 170° viewing angle, approx. 100% frame coverage and brightness adjustment • **Playback** ➢ Playback: Full-frame and thumbnail (4, 9, or 72 images or calendar) playback with playback zoom, movie playback, photo and/or movie slide shows, histogram display, highlights, photo information, GPS data display and auto image rotation • **Interface** ➢ USB: Hi-Speed USB ➢ HDMI output: HDMI mini connector (Type C) ➢ Accessory terminal: Wireless remote controller: WR-1 and WR-R10 (available separately), Remote cord: MC-DC2 (available separately), GPS unit: GP-1/GP-1A (available separately) ➢ Audio input: Stereo mini-pin jack (3.5-mm diameter; plug-in power supported) ➢ Audio output: Stereo mini-pin jack (3.5-mm diameter) ➢ Supported languages: Arabic, Bengali, Chinese (Simplified and Traditional), Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hindi, Hungarian, Indonesian, Italian, Japanese, Korean, Norwegian, Persian, Polish, Portuguese (European and Brazilian), Romanian, Russian,	

	Spanish, Swedish, Tamil, Thai, Turkish, Ukrainian, Vietnamese • **Power Source** ➢ Battery: One EN-EL15 Rechargeable Li-ion Battery ➢ Battery Pack: Optional MB-D15 Multi-Power Battery Pack with one EN-EL15 Rechargeable Li-ion Battery or six AA-size alkaline, Ni-MH or lithium batteries ➢ AC adapter: EH-5b AC Adapter; requires EP-5B Power Connector (available separately) • **Tripod socket** ➢ Tripod socket: 1/4 in. (ISO 1222) ➢ **Dimensions / Weight** ➢ Dimensions (HxWxD): Approx. 135.5 x 106.5 x 76 mm/5.3 x 4.2 x 3.0 in. ➢ Weight: Approx. 765 g/1 lb 11.0 oz with battery and memory card but without body cap; approx. 675 g/1 lb 7.8 oz (camera body only) • **Operating Environment** ➢ Operating environment: Temperature: 0 to 40°C/32 to 104°F; humidity: 85% or less (no condensation) • **Accessories** ➢ Supplied accessories (may differ by country or area): EN-EL15 Rechargeable Li-ion Battery, MH-25 Battery Charger, DK-5 Eyepiece Cap, DK-23 Rubber Eyecup, UC-E6 USB Cable, AN-DC1 BK Camera Strap, BF-1B Body Cap, BS-1 Accessory Shoe Cover, ViewNX 2 CD-ROM	
VIII.	**Laptop Computer** • **Specifications** ➢ Intel Core i5-7200UProcessor, 2.5GHz (3M Cache, up to 3.1 GHz) ➢ Windows 10 (64bit) ➢ 14.0'//LED Back-lit//Ultra Slim 300nits//FHD 1920x1080 16:9//Anti-Glare//NTSC:72%//WV ➢ DDR4 4GB ➢ 4G ➢ SATA3 256G M.2 SSD ➢ HDMI 1.4 ➢ Discrete ➢ NVIDIA GeForce 940MX (N16S-GTR) ➢ Intel HD graphics 620 ➢ GDDR3 2GB ➢ HD Web Camera ➢ 802.11ac+Bluetooth 4.1 (Dual band) 2*2 ➢ Sepc: SD, MMC ➢ 1 x USB 2.0 ➢ 1 x USB 3.0 ➢ 1 x USB 3.1 Type C (gen 1) ➢ 1 x Headphone-out & Audio-in Combo Jack ➢ 1 x micro HDMI ➢ 1 x smart card reader ➢ Built-in speaker ➢ Built-in microphone ➢ Audio by ICEpower	

	➢ 1.00 KG (without battery) ➢ 1.30 KG (with 3 cell battery) ➢ 32.4(W) x 22.5(D) x 1.59 ~ 1.59 (H) cm ➢ 65W AC adapter ➢ Output: 19V DC, 3.42A, 65W ➢ Input: 100~240V AC, 50/60 Hz universal ➢ 50WHrs, 3S1P, 3-cell Li-on ➢ Illuminated Chiclet keyboard ➢ ASUS Screen saver ➢ ASUS Smart Gesture ➢ ASUS Splendid ➢ TPM (Firmware TPM) ➢ HDD User password protection and security ➢ BIOS Booting User Password Protection ➢ Sleeve ➢ Laptop Bag	
IX.	**Wireless Mouse** ➢ Sensor: Laser sensor(1600 CPI max) ➢ Buttons: Two primary buttons and Clickable scroll wheel ➢ USB: Wireless receiver at 2.4 GHz ➢ With battery	
X.	**Warranty** ➢ One (1) year on parts and Three (3) years on service	
	* Inclusive of Delivery and Installation	

I hereby certify to comply with all the above Technical Specifications.

Name of Company/Bidder	Signature over Printed Name of Representative	Date

SCHEDULE OF REQUIREMENTS

Item	SCHEDULE OF REQUIREMENTS	Quantity	Contract Duration
	The Bidder/Supplier shall provide the following needed for the project:		
1	Memory Card	1 piece	Within thirty (30) calendar days upon receipt of the Notice to Proceed.
2	Mobile Phone tripod	1 unit	
3	DSLR Camera tripod	1 unit	
4	Mobile camera stabilizer	1 unit	
5	DSLR Camera 1 (Body only)	1 unit	
6	DSLR Camera Lens	1 unit	
7	DSLR Camera 2 (Body only)	1 unit	
8	Laptop computer	1 unit	
9	Wireless Mouse	1 unit	
10	Warranty		One (1) year on parts and Three (3) years on service

I hereby certify to comply and deliver all the above requirements.

_____ _____ _____

Name of Company/Bidder Signature over Printed Name of Representative Date

Omnibus Sworn Statement

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.

A F F I D A V I T

I, *[Name of Affiant]*, of legal age, *[Civil Status]*, *[Nationality]*, and residing at *[Address of Affiant]*, after having been duly sworn in accordance with law, do hereby depose and state that:

1. ***Select one, delete the other:***

   If a sole proprietorship: I am the sole proprietor of *[Name of Bidder]* with office address at *[address of Bidder]*;

   If a partnership, corporation, cooperative, or joint venture: I am the duly authorized and designated representative of *[Name of Bidder]* with office address at *[address of Bidder]*;

2. ***Select one, delete the other:***

   If a sole proprietorship: As the owner and sole proprietor of *[Name of Bidder]*, I have full power and authority to do, execute and perform any and all acts necessary to represent it in the bidding for *[Name of the Project]* of the *[Name of the Procuring Entity]*;

   If a partnership, corporation, cooperative, or joint venture: I am granted full power and authority to do, execute and perform any and all acts necessary and/or to represent the *[Name of Bidder]* in the bidding as shown in the attached *[state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate issued by the corporation or the members of the joint venture)]*;

3. *[Name of Bidder]* is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board;

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

5. *[Name of Bidder]* is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. ***Select one, delete the rest:***

If a sole proprietorship: I am not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

If a partnership or cooperative: None of the officers and members of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

If a corporation or joint venture: None of the officers, directors, and controlling stockholders of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

7. *[Name of Bidder]* complies with existing labor laws and standards; and

8. *[Name of Bidder]* is aware of and has undertaken the following responsibilities as a Bidder:

   a) Carefully examine all of the Bidding Documents;

   b) Acknowledge all conditions, local or otherwise, affecting the implementation of the Contract;

   c) Made an estimate of the facilities available and needed for the contract to be bid, if any; and

   d) Inquire or secure Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.

9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.

IN WITNESS WHEREOF, I have hereunto set my hand this __ day of ___, 20__ at _____, Philippines.

_____
Bidder's Representative/Authorized Signatory

SUBSCRIBED AND SWORN to before me this __ day of *[month] [year]* at *[place of execution]*, Philippines. Affiant/s is/are personally known to me and was/were identified by me through competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M. No.02-8-13-SC). Affiant/s exhibited to me his/her *[insert type of government*

identification card used], with his/her photograph and signature appearing thereon, with no. _____ and his/her _____ No. _____ issued on _____ at _____.

Witness my hand and seal this ___ day of *[month] [year].*

NAME OF NOTARY PUBLIC
Serial No. of Commission _____
Notary Public for _____ until _____
Roll of Attorneys No. _____
PTR No. __, *[date issued], [place issued]*
IBP No. __, *[date issued], [place issued]*

Doc. No. ___
Page No. ___
Book No. ___
Series of ___