

CENTRE FOR DEVELOPMENT OF IMAGING TECHNOLOGY (C-DIT)

Chithranjali Hills, Thiruvallom, Thiruvananthapuram-27

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Ref. No. C-DIT/3/CCD/17/T040

Date 24.08.17

TENDER NOTICE

Supply of Still Camera (Entry Level) with Lens Kit,

Digital SLR Camera Semi Professional with Lens Kit

Sealed tenders are invited for the supply of the following.

Sl. No	Description	Quantity required
1	Still Camera (Entry level) with Lens Kit	5
2	Digital SLR Camera Semi Professional with Lens Kit	2

The envelopes containing the tender should bear the superscription "*Tender for the supply of Still Camera, Digital SLR Camera* " and should be addressed to The Registrar, Centre for Development of Imaging Technology (C-DIT), Chitranjali hills, Thiruvallam, Thiruvananthapuram 695027. Intending tenderers may submit the tenders on their own papers by post/hand. Last date for receipt of tenders is **11.09. 2017, 3.00 PM**. Late tenders will not be accepted. The tenders will be opened at **3.30 PM on 11. 09. 2017** in C-DIT office in the presence of the tenderers or their authorized representatives who may be present at that time. Details of the requirements and the conditions governing the supply can be downloaded from our website www.cdit.org

Thiruvananthapuram

24.08.2017

Sd/-

REGISTRAR

SPECIFICATION

Still Camera (Entry Level) with Lens Kit (18-55 IS,55-250IS)	
Type	
Type	Digital, single-lens reflex, AF/AE camera with built-in flash
Recording media	SD memory card, SDHC memory card, SDXC memory card * Compatible with UHS-I
Image sensor size	Approx. 22.3 x 14.9mm
Compatible lenses	Canon EF lenses (including EF-S lenses) * Excluding EF-M lenses (35mm-equivalent focal length is approx. 1.6 times the lens focal length)
Lens mount	Canon EF mount
Image Sensor Type	CMOS sensor
Effective pixels	Approx. 18.00 megapixels
Aspect ratio	3:2
Dust delete feature	Auto, Manual, Dust Delete Data appending
Recording System :Recording format	Design rule for Camera File System (DCF) 2.0
Image type	JPEG, RAW (14-bit Canon original) RAW+JPEG Large simultaneous recording possible
Recording pixels	L (Large): Approx. 17.90 megapixels (5184 x 3456) M (Medium): Approx. 8.00 megapixels (3456 x 2304) S1 (Small 1): Approx. 4.50 megapixels (2592 x 1728) S2 (Small 2): Approx. 2.50 megapixels (1920 x 1280) S3 (Small 3): Approx. 350,000 pixels (720 x 480) RAW: Approx. 17.90 megapixels (5184 x 3456)
Image Processing During Shooting	
Picture style	Auto, Standard, Portrait, Landscape, Neutral, Faithful, Monochrome User Def. 1 – 3
Basic+	Ambience-based shots, Light / scene-based shots
White balance	Auto, Preset (Daylight, Shade, Cloudy, Tungsten light, White fluorescent light, Flash), Custom White balance correction and white balance bracketing features provided * Flash colour temperature information transmission enabled

Noise reduction	Applicable to long exposures and high ISO speed shots
Auto image brightness correction	Auto Lighting Optimizer
Highlight tone priority	Provided
Lens peripheral illumination correction	Peripheral illumination correction, Chromatic aberration correction
Viewfinder	
Type	Eye-level pentamirror
Coverage	Vertical / Horizontal approx. 95% (with Eye point approx. 19mm)
Magnification	Approx. 0.85x (-1 m^{-1} with 50mm lens at infinity)
Eyepoint	Approx. 19mm (from eyepiece lens center at -1 m^{-1})
Built-in dioptic adjustment	Approx. $-3.0 - +1.0\text{ m}^{-1}$ (dpt)
Focusing screen	Fixed, Precision Matte
Mirror	Quick-return type
Depth-of-field preview	Provided
Autofocus	
Type	TTL secondary image-registration, phase detection
AF points	Nine cross-type AF points (Cross-type AF sensitive to f/2.8 with center AF point)
Focusing brightness range	EV $-0.5 - 18$ (center AF point, at $23^{\circ}\text{C} / 73^{\circ}\text{F}$, ISO 100)
AF operation	One-Shot AF, AI Servo AF, AI Focus AF
AF-assist beam	Small series of flashes fired by built-in flash
Exposure Control	
Metering modes	63-zone TTL full-aperture metering (1) Evaluative metering (linked to all AF points) (2) Partial metering (approx. 9% of viewfinder at center) (3) Spot metering (approx. 4% of viewfinder at center) (4) Center-weighted average metering
Metering brightness range	EV $1 - 20$ (at $23^{\circ}\text{C} / 73^{\circ}\text{F}$ with EF50mm f/1.8 II lens, ISO 100)
Exposure control	Program AE (Scene Intelligent Auto, Flash Off, Creative Auto, Portrait, Landscape, Close-up, Sports, Special scene (Night Portrait, Handheld Night Scene, HDR Backlight Control), Program), Shutter-priority AE, Aperture-priority AE, Manual exposure

ISO speed (Recommended exposure index)	Basic Zone modes*: Creative zone modes:	ISO 100 – ISO 6400 set automatically *Portrait: ISO 100, Handheld Night Scene: ISO 100 – ISO 12800 set automatically ISO 100 – ISO 12800 set manually (whole-stop increments), ISO 100 – ISO 6400 set automatically, maximum ISO speed settable for ISO Auto, or ISO expansion to "H" (equivalent to ISO 25600)
Exposure compensation	Manual: AEB:	±5 stops in 1/3- or 1/2-stop increments ±2 stops in 1/3- or 1/2-stop increments (Can be combined with manual exposure compensation)
AE lock	Auto: Manual:	Applied in One-Shot AF with evaluative metering when focus is achieved With AE lock button
Shutter Type		
Shutter speeds	1/4000sec. to 30secs. (Total shutter speed range. Available range varies by shooting mode.), Bulb, X-sync at 1/200sec.	
Built-in flash	Retractable, auto pop-up flash Guide No.: Approx. 13/43 (ISO 100, in meters/feet) Flash coverage: Approx. 17mm lens angle of view Recycling time approx. 3secs. Wireless master function provided	
External flash	EX-series Speedlite (Flash functions settable with the camera)	
Flash metering	E-TTL II autofocus	
Flash exposure compensation	±2 stops in 1/3- or 1/2-stop increments	
FE lock	Provided	
PC terminal	None	
Drive System :Drive mode	Single shooting, continuous shooting, self-timer with 10-secs. or 2-secs. delay and 10-secs. delay with continuous shooting	
Continuous shooting speed	Max. approx. 5.0 shots/sec.	
Max. burst (Approx.):	JPEG Large / Fine:	22 (30) shots
	RAW:	6 (6) shots
	RAW + JPEG Large / Fine:	3 (3) shots
	* Figures in parentheses apply to an UHS-I compatible 8GB card based on Canon's testing standards. * Figures are based on Canon's testing standards (ISO 100 and "Standard" Picture Style) using an 8GB card.	
Live View Shootings		
Aspect ratio settings	3:2, 4:3, 16:9, 1:1	

Focusing	Hybrid CMOS AF System* (Face+Tracking, FlexiZone-Multi, FlexiZone-Single), Phase-difference detection (Quick mode) Manual focusing (approx. 5x / 10x magnification possible) * Focusing brightness range: EV 1 – 18 (at 23°C / 73°F, ISO 100)
Metering modes	Real-time metering with image sensor Evaluative metering (315 zones), Partial metering (approx. 8.8% of Live View screen), Spot metering (approx. 2.8% of Live View screen), Center-weighted average metering
Metering brightness range	EV 0 – 20 (at 23°C / 73°F with EF50mm f/1.4 USM lens, ISO 100)
Creative filters	Grainy B/W, Soft focus, Fish-eye effect, Art bold effect, Water painting effect, Toy camera effect, Miniature effect
Grid display	Two types
Movie Shooting Recording format	MOV
Movie	MPEG-4 AVC / H.264 Variable (average) bit rate
Audio	Linear PCM
Recording size and frame rate	1920 x 1080 (Full HD): 30p / 25p / 24p 1280 x 720 (HD): 60p / 50p 640 x 480 (SD): 30p / 25p * 30p: 29.97 fps, 25p: 25.00 fps, 24p: 23.98 fps, 60p: 59.94 fps, 50p: 50.00 fps
File size	1920 x 1080 (30p / 25p / 24p): Approx. 330 MB/min. 1280 x 720 (60p / 50p): Approx. 330 MB/min. 640 x 480 (30p / 25p): Approx. 82.5 MB/min.
Focusing	Hybrid CMOS AF System* (Face+Tracking, FlexiZone-Multi, FlexiZone-Single) Manual focusing (approx. 5x / 10x magnification possible) * Focusing brightness range: EV 1 – 18 (at 23°C / 73°F, ISO 100)
Metering modes	Center-weighted average and evaluative metering with the image sensor * Automatically set by the focusing mode
Servo AF	Provided
Metering brightness range	EV 0 – 20 (at 23°C / 73°F with EF50mm f/1.4 USM lens, ISO 100)
Exposure control	Program AE for movies and manual exposure
Exposure compensation	±3 stops in 1/3-stop increments (Still photos: ±5 stops)
ISO speed	Auto ISO range ISO 100 – ISO 6400 set
(Recommended exposure index)	Manual ISO range ISO 100 – ISO 6400 set automatically / manually, expandable to H (equivalent to ISO 12800)
Video snapshots	Settable to 2 secs. / 4 secs. / 8 secs.
Sound recording	Built-in stereo microphone External stereo microphone terminal provided Sound recording level adjustable, wind filter provided, attenuator provided
Grid display	Two types

LCD Monitor Type	TFT color liquid-crystal monitor	
Monitor size and dots	Wide, 7.7cm (3.0-in.) (3:2) with approx. 1.04 million dots	
Angle adjustment	Possible	
Brightness adjustment	Manual (7 levels)	
Interface languages	25	
Touch screen technology	Capacitive sensing	
Feature guide	Displayable	
Playback Image display formats	Single-image display, Single-image + Info display (Basic info, shooting info, histogram), 4-image index, 9-image index	
Zoom magnification	Approx. 1.5x – 10x	
Highlight alert	Overexposed highlights blink	
Image browsing methods	Single image, jump by 10 or 100 images, by shooting date, by folder, by movies, by stills, by rating	
Slide show	All images, by date, by folder, by movies, by stills, by rating Five transition effects selectable	
Background music	Selectable for slide shows and movie playback	
Post-Processing of Images		
Creative filters	Grainy B/W, Soft focus, Fish-eye effect, Art bold effect, Water painting effect, Toy camera effect, Miniature effect	
Direct Printing Compatible printers	PictBridge-compatible printers	
Printable images	JPEG and RAW images	
Print ordering	DPOF Version 1.1 compatible	
Interface :Audio / video OUT / Digital terminal	Analog video (compatible with NTSC / PAL) / stereo audio output Personal computer communication and direct printing (Hi-Speed USB equivalent), GPS Receiver GP-E2 connection	
HDMI mini OUT terminal	Type C (auto switching of resolution), CEC-compatible	
External microphone IN terminal	3.5mm diameter stereo mini-jack	
Remote control terminal	For Remote Switch RS-60E3	
Wireless remote control	Remote Controller RC-6	
Eye-Fi card	Compatible	
Power		
Battery	Battery Pack LP-E8 (Qty 1) * AC Power can be supplied via Adapter Kit ACK-E8 * With Battery Grip BG-E8 attached, size-AA / LR6 batteries	
Battery Life	With viewfinder shooting:	Approx. 440 shots at 23°C / 73°F Approx. 400 shots at 0°C / 32°F
	With Live View shooting:	Approx. 180 shots at 23°C / 73°F Approx. 150 shots at 0°C / 32°F
	Movie shooting:	Approx. 1 hr. 40mins. at 23°C / 73°F Approx. 1 hr. 20 min. at 0°C / 32°F (with a fully-charged Battery Pack LP-E8)

Digital SLR Camera Semi Professional with Lens Kit (18-55IS,55-250IS)

Type	
Type	Digital, single-lens reflex, AF/AE camera with built-in flash
Recording media	SD/SDHC*/SDXC* memory cards * UHS-I cards supported
Image sensor size	Approx. 22.3 x 14.9mm
Compatible lenses	Canon EF lenses (including EF-S lenses) Excluding EF-M lenses(35mm-equivalent angle of view is that of a lens with approx. 1.6x the focal length indicated.)
Lens mount	Canon EF mount
Image Sensor Type	CMOS sensor
Effective pixels	Approx. 24.2 megapixels * Rounded off to the nearest 10,000 th
Aspect ratio	3:2
Dust delete feature	Auto, Manual, Dust Delete Data appending
Recording System	
Recording format	Design rule for Camera File System (DCF) 2.0
Image type	JPEG, RAW (14-bit Canon original), RAW+JPEG simultaneous recording possible
Pixels recorded	L (Large) 24.0 megapixels (6000 x 4000) M (Medium): Approx. 10.6 megapixels (3984 x 2656) S1 (Small 1): Approx. 5.9 megapixels (2976 x 1984) S2 (Small 2): Approx. 2.5 megapixels (1920 x 1280) S3 (Small 3): Approx. 350,000 pixels (720 x 480) RAW: 24.0 megapixels (6000 x 4000) M-RAW: 13.5 megapixels (4500 x 3000) S-RAW: 6.0 megapixels (3000 x 2000)
Aspect ratio	3:2, 4:3, 16:9, 1:1
Create / select a folder	Possible
File numbering	Continuous, Auto reset, Manual reset
Image Processing During Shooting Picture Style	Auto, Standard, Portrait, Landscape, Fine Detail, Neutral, Faithful, Monochrome, User Defined 1 - 3
White balance	Auto (Ambience priority), Auto (White priority), Preset (Daylight, Shade, Cloudy, Tungsten light, White fluorescent light, Flash), Custom, Color temperature setting (approx. 2500 - 10000K), White balance correction, and White balance bracketing provided
Noise reduction	Applicable to long exposures and high ISO speed shots
Automatic image brightness correction	Auto Lighting Optimizer provided

Highlight tone priority	Provided
Lens aberration correction	Peripheral illumination correction, Chromatic aberration correction, Distortion correction
Viewfinder Type	Eye-level pentaprism
Coverage (by aspect ratio)	3:2 (vertical: approx. 100%, horizontal: approx. 100%), 4:3 (vertical: approx. 100%, horizontal: approx. 97%), 16:9 (vertical: approx. 97%, horizontal: approx. 100%), 1:1 (vertical: approx. 100%, horizontal: approx. 96%) *With eyepoint at approx. 22mm.
Magnification	Approx. 0.95x (-1m^{-1} with 50mm lens at infinity)
Eye point	Approx. 22mm (from eyepiece lens center at -1m^{-1})
Diopric adjustment range	Approx. $-3.0 - +1.0\text{m}^{-1}$ (dpt)
Focusing screen	Fixed
Grid display	Provided
Electronic level	Provided
Mirror	Quick-return type
Depth-of-field preview	Provided
Autofocus (for viewfinder shooting)	
Type	TTL secondary image-registration, phase-difference detection with the dedicated AF sensor
AF points	45 (Cross-type AF point Max. 45 points) * Number of available AF points, Dual cross-type AFpoints, and cross-type AF points vary depending on the lens used and aspect ratio settings. * Dual cross-type focusing at f/2.8 with center AF point.(AF group: When Group A lenses are used)
Focusing brightness range	EV -3 - 18 (with the center AF point supporting f/2.8, One-Shot AF, at room temperature, ISO 100)
Focus operation	One-Shot AF, AI Servo AF, AI Focus AF, Manual focusing (MF)
AF area selection mode	Single-point AF (Manual selection), Zone AF (Manual selection of zone), Large Zone AF (manual selection of zone), 45-point automatic selection AF
AF point automatic selection conditions	AF points can be selected automatically using information on colors equivalent to skin tones
AI Servo AF characteristics	Tracking sensitivity, Acceleration / deceleration tracking, AF point auto switching
AF fine adjustment	AF Micro adjustment (All lenses by same amount or Adjust by lens)
AF-assist beam	Small series of flashes fired by built-in flash
Exposure Control Metering mode	63-zone TTL open-aperture metering using 7560-pixel RGB plus IR meterina sensor

	Evaluative metering (linked to all AF points) Partial metering (approx. 6.0% of viewfinder at center) Spot metering (approx. 3.8% of viewfinder at center) Center-weighted average metering
Metering brightness range	EV 1 – 20 (at room temperature, ISO 100)
Shooting mode	Basic Zone modes Scene Intelligent Auto, Flash Off, Creative Auto, Special scene modes (Food, Kids, Candlelight, Night Portrait, Handheld Night Scene, HDR Backlight Control, Portrait, Landscape, Close-up, Sports), Creative filters (Grainy B/W, Soft focus, Fish-eye effect, Toy camera effect, Miniature effect, Water painting effect, HDR art standard, HDR art vivid, HDR art bold, HDR art embossed) Creative Zone modes: Program AE, Shutter-priority AE, Aperture-priority AE, Manual exposure, Bulb exposure, Custom shootingmode
ISO speed (Recommended exposure index)	Basic Zone modes*: ISO 100 – ISO 6400 set automatically * Handheld Night Scene: ISO 100 – ISO 12800 set automatically, Landscape: ISO 100 – ISO 1600 set automatically P, Tv, Av, M, B: ISO Auto, ISO 100 – ISO 16000 set manually (1/3- and whole-stop increments), and ISO expansion to H (equivalent to ISO 25600)
ISO speed settings	Range for stills, Auto range, and Minimum shutter speed for auto settable
Exposure compensation	Manual: ±5 stops in 1/3- or 1/2-stop increments AEB: ±3 stops in 1/3- or 1/2-stop increments (can be combined with manual exposure compensation)
AE lock	Auto: Applied in One-Shot AF with evaluative metering when focus is achieved Manual: With AE lock button
Anti-flicker	Possible
Interval timer	Shooting interval and shot count settable
• Bulb timer	Bulb exposure time settable

<ul style="list-style-type: none"> • HDR Shooting Dynamic range adjustment 	Auto, ± 1 , ± 2 , ± 3
Effects	Natural, Art standard, Art vivid, Art bold, Art embossed
Auto image alignment	Provided
Multiple Exposures Number of multiple exposures	2 – 9 exposures
Multiple-exposure control	Additive, Average
Shutter Type	Electronically-controlled, focal-plane shutter
Shutter speed	1/8000sec. to 30sec. (total shutter speed range; available range varies by shooting mode), Bulb, X-sync at 1/250sec.
Drive System Drive mode	Single shooting, High-speed continuous shooting, Low-speed continuous shooting, Silent single shooting, Silent continuous shooting, 10-sec. self-timer/remote control, 2-sec. self-timer/remote control
Continuous shooting speed	<p>High-speed continuous shooting: Max. approx. 7.0 shots/sec.* * Max. approx. 5.0 shots/sec. during Live View shooting or when [Servo AF] is set.</p> <p>Low-speed continuous shooting: Max. approx. 3.0 shots/sec.</p> <p>Silent continuous shooting: Max. approx. 3.0 shots/sec.</p>
Max. burst	<p>JPEG Large/Fine: Approx. 77 shots (approx. 110 shots)</p> <p>RAW: Approx. 20 shots (approx. 25 shots)</p> <p>RAW+JPEG Large/Fine: Approx. 20 shots (approx. 22 shots)</p> <p>* Figures are based on Canon's testing standards (3:2 aspect ratio, ISO 100 and Standard Picture Style) using an 8GB card.</p> <p>* Figures in parentheses apply to an UHS-I compatible 16GB card based on Canon's testing standards.</p>
Flash Built-in flash	<p>Retractable, auto pop-up flash</p> <p>Guide No.: Approx. 12 / 39.4 (ISO 100, in meters / feet)</p> <p>Flash coverage: Approx. 17mm lens angle of view</p> <p>Recharge time: Approx. 3sec.</p>
External Speedlite	Compatible with EX-series Speedlites
Flash metering	E-TTL II autofocus
Flash exposure compensation	± 3 stops in 1/3- or 1/2-stop increments
FE lock	Provided
PC terminal	None
Flash control	Built-in flash function settings, external Speedlite function settings, external Speedlite Custom Function settings Wireless flash control via optical transmission possible

Live View Shooting	Focus method	Dual Pixel CMOS AF system
	AF method	Face+Tracking, FlexiZone-Multi, FlexiZone-Single Manual focus (approx. 5x / 10x magnification possible)
	AF operation	One-Shot AF, Servo AF
	Focusing brightness range	EV 0 – 18 (at room temperature, ISO 100)
	Metering mode	Evaluative metering (315 zones), Partial metering (approx. 6.1% of Live View screen), Spot metering (approx. 2.6% of Live View screen), Center-weighted average metering
	Metering brightness range	EV 0 – 20 (at room temperature, ISO 100)
	Exposure compensation	±3 stops in 1/3-stop or 1/2-stop increments
	Creative filters	Provided
	Silent LV shooting	Provided (Mode 1 and 2)
	Grid display	Three types
Movie Shooting	Recording format	MOV/MP4
	Movie	MPEG-4 AVC / H.264 Variable (average) bit rate
	Audio	MOV: Linear PCM, MP4: AAC
	Recording size and frame rate	[MOV] Full HD (1920x1080): 29.97p / 25.00p / 23.98p [MP4] Full HD (1920x1080): 59.94p / 50.00p / 29.97p / 25.00p / 23.98p HD (1280x720): 59.94p / 50.00p / 29.97p / 25.00p
	Compression method	[MOV] : ALL-I (For editing / I-only) [MP4] : IPB (Standard), IPB (Light)
	Bit rate	[MOV] Full HD (29.97p / 25.00p / 23.98p) / ALL-I: Approx. 90Mbps [MP4] Full HD (59.94p / 50.00p) / IPB (Standard) : Approx. 60Mbps Full HD (29.97p / 25.00p / 23.98p) / IPB (Standard) : Approx. 30Mbps Full HD (29.97p / 25.00p) / IPB (Light) : Approx. 12Mbps HD (59.94p / 50.00p) / IPB (Standard) : Approx. 26Mbps HD (29.97p / 25.00p) / IPB (Light) : Approx. 4Mbps HDR Movie Shooting : Approx. 30Mbps
	Focus method	Dual Pixel CMOS AF system
	AF method	Face+Tracking, FlexiZone-Multi, FlexiZone-Single Manual focus

Movie Servo AF	(approx. 5x / 10x magnification possible) Provided * Movie Servo AF customizable
Digital zoom	Approx. 3 – 10x
Focusing brightness range	EV 0 – 18 (at room temperature, ISO 100)
Metering mode	Center-weighted average or Evaluative metering
Metering brightness range	EV 0 – 20 (at room temperature, ISO 100)
Exposure control	Auto exposure shooting (Program AE for movie shooting) and manual exposure
Exposure compensation	±3 stops in 1/3- or 1/2-stop increments
ISO speed (Recommended exposure index)	For auto exposure shooting: ISO 100 – ISO 12800 set automatically. In Creative Zone modes, the upper limit is expandable to H (equivalent to ISO 25600). For manual exposure shooting: ISO Auto (ISO 100 – ISO12800 set automatically), ISO 100 – ISO 12800 set manually (1/3- and whole-stop increments), expandable to H (equivalent to ISO 25600)
ISO speed settings	Range for movie shooting settable
HDR Movie Shooting	Possible
Creative filters for movies	Memory, Dream, Old Movies, Dramatic B&W, Miniature effect movie
Video snapshots	Settable to 2sec. / 4sec. / 8sec.
Sound recording	Built-in stereo microphones, external stereo microphone terminal provided Sound-recording level adjustable, wind filter provided, attenuator provided
Headphones	Headphone terminal provided, sound volume adjustable
Grid display	Three types
Time-lapse movie	Shooting interval and number of shots settable, Required shooting time period, playback length, and remaining card capacity viewable
Still photo shooting	Not possible during movie shooting
LCD Monitor Type	TFT color, liquid-crystal monitor
Monitor size and dots	Wide 7.7cm (3.0in.) (3:2) with approx. 1.04 million dots
Brightness adjustment	Manual (7 levels)
Electronic level	Provided
Interface languages	25
Touch screen technology	Capacitive sensing
Feature guide / Help	Displayable

Playback Image display format	Single-image display (without shooting information), Single-image display (with basic information), Single-Image display (Shooting information displayed: Detailed information, Lens / histogram, White balance, Picture Style 1, Picture Style 2, Color space / noise reduction, Lens aberration correction), Index display (4 / 9 / 36 / 100 images)
Highlight alert	Overexposed highlights blink
AF point display	Provided (may not be displayed depending on shooting conditions)
Grid display	Three types
Zoom magnification	Approx. 1.5 – 10x
Image browsing methods	Single image, jump by 10 or 100 images, by shooting date, by folder, by movies, by stills, by rating
Image rotation	Possible
Image protection	Possible
Rating	Provided
Movie playback	Enabled (LCD monitor, HDMI), built-in speaker
Slide show	All images, by date, by folder, by movies, by stills, by rating
Background music	Selectable for slide shows and movie playback
In-camera RAW image processing	Brightness adjustment, White balance, Picture Style, Auto Lighting Optimizer, High ISO speed noise reduction, JPEG image-recording quality, Color space, Peripheral illumination correction, Distortion correction, Chromatic aberration correction
Resize	Provided
Creative filters	Grainy B/W, Soft focus, Fish-eye effect, Art bold effect, Water painting effect, Toy camera effect, Miniature effect
DIGITAL terminal	Computer communication (Hi-Speed USB equivalent), GPS Receiver GP-E2, Connect Station CS100 connection
HDMI mini OUT terminal	Type C (Auto switching of resolution), CEC-compatible
External microphone IN terminal	3.5mm diameter stereo mini-jack
Remote control terminal	For Remote Switch RS-60E3
Wireless remote control	Compatible with Remote Controller RC-6
Eye-Fi card	Compatible
Battery	Battery Pack LP-E6N / LP-E6, quantity 1 * AC power usable with household power outlet accessories. *With Battery Grip BG-E14 attached, AA / R6 batteries can be used.
Battery information	Remaining capacity, Shutter count, Recharge performance, and Battery registration possible
Number of possible shots (Based on CIPA testing standards, with 50% flash use)	With viewfinder shooting: Approx. 960 shots at room temperature (23°C / 73°F), approx. 860 shots at low temperatures (0°C / 32°F) With Live View shooting: Approx. 300 shots at room temperature (23°C / 73°F).

	approx. 270 shots at low temperatures (0°C / 32°F)
Movie shooting time	Total approx. 1hr. 50 min. at room temperature (23°C / 73°F) Total approx. 1hr. 40 min. at low temperatures (0°C / 32°F) *With a fully-charged Battery Pack LP-E6N.
Wireless Communications	
Standards compliance	IEEE 802.11b/g/n
Transmission method	DS-SS modulation (IEEE 802.11b) OFDM modulation (IEEE 802.11g/n)
Transmission range	Approx. 15m / 49.2ft. * When connected to a smartphone * With no obstructions between the transmitting and receiving antennas and no radio interference
Transmission frequency (central frequency)	Frequency: 2412 – 2462 MHz Channels: 1 – 11 ch
Connection method	Camera access point mode, infrastructure* * Wi-Fi Protected Setup supported
Security	Authentication method: Open system, Shared key, WPA/ WPA2-PSK Encryption: WEP, TKIP, AES
NFC connection	For communication with smartphones or connection to Connect Station
Battery Pack	
Type	Rechargeable lithium-ion battery
Rated voltage	7.2V DC
Battery capacity	1865mAh
Working temperature range	0°C – 40°C / 32°F – 104°F
Working humidity	85% or less
Dimensions (W x H x D)	Approx. 38.4 x 21.0 x 56.8mm / 1.5 x 0.8 x 2.2in.
Weight	Approx. 80g / 2.8oz. (excluding protective cover)

GENERAL TERMS AND CONDITIONS

1. This Tender is invited for the "**supply of Still Camera (Entry Level)with Lens Kit, Digital SLR Camera Semi Professional with Lens Kit**" for one of the projects taken up by C-DIT.
2. C-DIT reserves the right to cancel any or all tenders without assigning any reason whatsoever
3. **ELIGIBILITY CRITERIA OF TENDERER**
To qualify for award of the work, the intending tenderer must be an authorized dealer / supplier of the quoted items/ with prior experience in supplying the same or similar equipments in the last two years.
4. The Tenderers are responsible for effecting supply to the entire satisfaction of the undersigned or his authorized representatives. In case any defect in the item supplied is noticed, such item will be rejected at the risk and cost of the Supplier.
5. Tenders shall invariably be accompanied by manufacturer's catalogues and leaflets giving full specifications. Technical particulars and other details of the items offered 'brand make' and complete specification should be mentioned in the tender. In the absence of full details and technical specification the tenders for the items will be rejected.
6. The undersigned does not bind himself to accept the lowest tender and reserve himself the rights of accepting the whole or any part of the tender and the tenderer shall be bound to supply the accepted item at the rates quoted.
7. CDIT reserves the right to split the quantity of the items to be supplied among one or more bidders, at its sole discretion.
8. No advance payment will be made against supplies.
9. The rate quoted by the Tenderer shall be inclusive of the transportation charges, installation charges and unloading charges at site. Rates quoted by the tenderer shall be valid for a period of six months from the date of opening of the tender.
10. Delivery period shall be specifically indicated in the tender and strictly adhered to. The supply shall be arranged within 10 days on receipt of the firm order. Any delay in the delivery period after the supply order is placed may result in cancellation of the supply order.

11. The rate should be quoted for the unit shown in the list and tenders which do not indicate this essential information will not be considered.
12. There is no separate bid form. The supplier shall submit the price offers in their own paper
13. The rate quoted for material shall be final and no enhancement will be allowed under any circumstances.
14. The Supplier/ Contractor shall provide on-site comprehensive warranty of **one year** for the products from the date of supply.
15. If the tenderer furnishes wrong and/or misleading data, statement(s) etc. about technical acceptability of the goods and services offered by it, its tender will be liable to be ignored and rejected in addition to other remedies available to the purchaser in this regard.
16. After Sales Service: After sales service centre should be available in Thiruvananthapuram. Complaints should be attended properly, maximum within 24 hrs. The service should be provided directly by Tenderer.
17. All items offered shall conform in all respects to the relevant Indian standard Specification with up to date amendments wherever applicable.
18. Any dispute / differences between the parties arising out of and in connection with the contract shall be settled amicably by mutual negotiations. Unresolved disputes/ differences, if any, shall be settled by Arbitration and the arbitration proceedings shall be conducted at Thiruvananthapuram (India) in English language, under the Indian Arbitration and Conciliation Act, 1996. Unsettled disputes will be referred to courts and courts in Thiruvananthapuram/ Kerala will have exclusive jurisdiction over the same.

19. PAYMENT TERMS

The following terms of payment shall be applicable for the contract

- I. 100 % payment against successful supply of the Equipment .

20. Agreement: The Successful bidder within 7 days of getting confirmed purchase order has to enter an agreement with C-DIT in Rs.200 worth non judicial stamp paper, to ensure warranty and after sales support during the warranty period.

21. Authority: The authority for the acceptance of the tenders rests exclusively with the C-DIT. The C-DIT does not undertake to accept the lowest or any particular tender or to assign any reason whatsoever for the rejection of any tender.

22. The last date for submission of tender 11.09.2017, 3.00 PM The tender will be opened on the same day at 3.30 PM

23. At any time prior to the deadline for submission of tenders, the C-DIT may, for any reason deemed fit by it, modify/amend the tender documents by issuing suitable amendment(s)/ corrigendum's to it. Corrigendum to this tender shall be published in the site www.cdit.org. Prospective bidders are advised to regularly visit the website: www.cdit.org to keep track of corrigendum, if any.

24. In case of doubt:

If the bidder have any doubt on technical specifications or on terms & conditions stipulated above, please contact Sri. Sivakumar B in Mobile Number: 9995586468

Sd/
REGISTRAR, C-DIT
Dated 24.08.17

PROFORMA OF "AGREEMENT"

(To be executed on non-Judicial Stamp Paper)

This Agreement made this. day of Two thousand and Between Centre for Development of Imaging Technology, a Society, registered under the Travancore-Cochin Literary, Scientific and Charitable Societies Registration Act XII of 1955, having its registered Office at Chitranjali Hills, Thiruvallom, Trivandrum 695 027 (hereinafter referred to as "C-DIT" which expression shall include its administrators, successors, executors and assigns) of the one part and a company/firm incorporated under the.. having its registered Office at (hereinafter referred to as the "Contractor" or "X" (brief name of contracting Co.) (which expression shall include its administrators, successors, executors and permitted assigns) of the other part.

WHEREAS C-DIT has invited bids for (briefly describe scope of the (work) as per its specification Ref. No.

AND WHEREAS..... "X" had participated in the above referred bidding vide their proposal No. dated and C-DIT accepted their aforesaid proposal and awarded the dated and C-DIT accepted their aforesaid proposal and awarded the contract to. "X" on terms and conditions contained in its letter of Indent/Purchase Order No. dated And the documents referred to therein, which have been accepted by "X" resulting into a "Contract"

NOW THEREFORE THIS DEED WITNESSETH AS UNDER :-

Article 1.0 AWARD OF CONTRACT

C-DIT has awarded the contract to "X" for the work of on the terms and conditions contained in its letter of Indent/Purchase Order No. dated and the documents referred to therein. The award has taken effect from.i.e. the date of issue of the aforesaid Letter. The terms & expressions used in this Agreement shall have the same meaning as are assigned to them in the "Contract Documents" referred to in the succeeding Article.

Article 2.0 CONTRACT DOCUMENTS

The Contract shall be performed strictly as per the terms and conditions stipulated herein and in the following documents attached herewith (hereinafter referred to as "Contract Documents").

Article 3.0 CONDITIONS & CONVENANTS

The scope of Contract, Consideration, Terms of payment, price Adjustment, Taxes wherever applicable, Insurance, liquidated Damages, performance, Guarantee and all other terms and conditions are contained in C-DIT's Purchase Order No. dated read in conjunction with other aforesaid Contract documents. The Contract shall be only performed by the Contractor strictly and faithfully in accordance with the terms of the Agreement.

The scope of work shall also include supply and installation of all such items which are not specifically mentioned in the contract Documents, but which are needed for successful, efficient, safe & reliable operation of the equipment unless otherwise specifically excluded in the specifications under ""exclusions" or Purchase Order.

TIME SCHEDULE: Time is the essence of the contract and schedules shall be strictly adhered to. "X" shall perform the work in accordance with the agreed schedule as given in letter of Indent/Purchase Order.

The Contractor guarantees that the equipment package under the contract shall meet the ratings and performance parameters, as stipulated in the Technical Specifications (Volume II) and in the event of any deficiencies found in the requisite performance figures, the C-DIT may at its option reject the equipment package or alternatively accept it on the terms and conditions and subject to levy of the liquidated damages in terms of Contract Documents. The amount of liquidated damages so leviable shall be in accordance with the Contract Documents and without any limitation.

It is further agreed by the Contractor that the Contract performance Guarantee shall in no way be construed to limit or restrict the C-DIT's right to recover the damages/compensation due to short-fall in the equipment performance figures as stated in Para 3.4 above or under any other clause of the Agreement. The amount of damages/Compensation shall be recoverable either by way of deduction from the contract price, contract performance guarantee and/or otherwise.

The Contract performance Guarantee furnished by the Contractor is irrevocable and un-conditional and the C-DIT shall have the powers to invoke it notwithstanding any dispute or difference between the C-DIT and the contractor pending before any court, tribunal, arbitrator or any other authority.

This Agreement constitutes full and complete understanding between the parties and terms of the presents. It shall supersede all prior correspondence to the extent of inconsistency of repugnancy to the terms and conditions contained in the Agreement. Any modification of the Agreement shall be effected only by a written instrument signed by the authorized representatives of both the parties.

Article 4.0 SETTLEMENTS OF DISPUTES

It is specifically agreed by and between the parties that all the differences or disputes arising out of the Agreement or touching the subject matter of the Agreement shall be decided by process of settlement & Arbitration as specified in clauses and provisions of the Arbitration and Conciliation Act 1996 and Kerala Courts alone shall have exclusive jurisdiction over the same.

NOTICE OF DEFAULT

Notice of default given by either party to the other party under the Agreement shall be in writing and shall be deemed to have been duly and properly served upon the parties here to if delivered through official email or by registered post with acknowledgement due addressed to the signatories

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IN WITNESS WHEREOF, the parties through their duly authorized representatives have executed these presents (execution where of has been approved by the competent authorities of both the parties) on the day, month and year first above mentioned at Trivandrum.

WITNESS

C-DIT

1.

(Signature)

(Name)

2.

(Designation)

(Seal)

1.

(Contractors signature)

(Designation)

(Seal)

2.