



CENTRAL ARID ZONE RESEARCH INSTITUTE
(Indian Council of Agricultural Research)
Jodhpur (Rajasthan) 342 003
Phone: 0291- 2787152 Fax: + 91 291 2788706

By Speed Post/ Website



F. No. 4(11)/2014-2015/Admn.IV

Dated : 27.10.2014

To,

M/s.
.....
.....

Sub: Inviting Quotations for Purchase of Digital Single Lens Reflex Camera 20.2 MP with Kit (EF 24-105 mmf 4L IS USM).

Dear Sir(s),

You are requested to kindly quote your lowest rates on the letter head of your firm with your all terms & condition keeping the following conditions in view, in respect of the articles as mentioned in the Schedule to Tender.

1. No advance payment will be made. However, the payment is normally made within 30 days from the date of receipt of material in good condition as per order.
2. Payment will be made by mode of e-payment to the supplier/firm after satisfactory supply of ordered material and receipt of pre-receipt.
3. The quantity proposed in the quotation may be increased or decreased at the discretion of the authority while placing the order.
4. Quotations not found according to specification will be rejected/not considered.
5. The firm should supply the printed literature, operational manual etc., if applicable. The firm should also supply a copy of the authorised dealership certificate of the item, if applicable.
6. Quotations should remain valid for 6 months from the date of quotation.
7. The rate should be on F.O.R. CAZRI, Jodhpur basis for indigenous items.
8. No. form 'C' & 'D' for sales tax will be issued. Payment will be made at full rate, if applicable. However, the firm is required to produce the valid sales tax Registration No. The firm should also indicate PAN/TIN as per Income Tax Rules.
9. The Rates quoted should **be clearly be indicated in figure as well as in words**. While quoting the rates, it may be clearly indicated whether the items are inclusive or exclusive of ST/VAT, CST, Excide Duty, Custom Duty, Octroi etc. either in terms of percentage or in absolute term.
10. Delivery will have to be made normally within 30 days from the date of issue of our order or as mentioned in the supply order unless such extension is allowed by the Institute **failing which suitable penalty as indicated in the supply order will be imposed.**
11. The quotation may be sent to the office by courier/Regd. Post/Speed Post in sealed cover superscribed with **"Quotation for Purchase of Digital Single Lens Reflex Camera 20.2 MP with Kit (EF 24-105 mmf 4L IS USM)"** due date 19.11.2014 and the same must be reach to this Office on or before **19.11.2014 upto 3.00 PM** failing which it will not be considered. The quotation should be dropped in the Tender Box placed in the Store Section (with A.A.O. IV). The Quotation will be opened on the very same i.e. on 19.11.2014 at 3.30 PM in presence of the representative of the firm if they desire to attend.
12. In case of any disputes, the decision of the Director, CAZRI, Jodhpur shall be binding on the part of the contractor/supplier.
13. Director, CAZRI, Jodhpur reserves the right to accept or reject any or all the quotation without assigning any reason.
14. All bids must be accompanied by a bid security/Earnest money deposit (EMD) @ 2% of the estimated value of the item, **if the cost of the item is Rs. 1.00 lac or more**, in the form of a Demand Draft on a scheduled commercial bank in India, in favour of **ICAR Unit – CAZRI, Jodhpur**. Without EMD as above, quotation will not be considered (**Offer less than Rs. 1.00 lac need not require EMD**). If the firm is registered with National small Industries Corporation (NSIC) there is no need to submit EMD (Bid Security).

P.T.O. ☆

15. Guarantee/Warrantee may be provided for the item(s) for which rates are quoted.
16. The firm awarded the contract may/will have to furnish a performance security in the form of Bank Guarantee as per the proforma to be supplied alongwith supply order or FDR pledged to **“ICAR Unit – CAZRI, Jodhpur”** from a scheduled Commercial Bank for an amount which may vary from 5% to 10% of the value of the contract at the discretion of Director, which should remain valid for the entire period of warrantee plus two months.
17. In case, rates are quoted in terms of foreign currency, the rates must be quoted as on FOB basis and NOT on CIF basis indicating all the terms and condition. The foreign banking charges shall be borne by the beneficiary.
18. No part supply will be allowed.
19. Installation/Demonstration were-ever required will have to be done by the firm free of cost by their representative/engineer.
20. The items required is for the Headquarter CAZRI, Jodhpur and therefore, supply will have to be made accordingly.
21. The details of this NITs are also available in our web site-www.cazri.res.in.

Yours faithfully,

Asstt. Administrative Officer (S)
for Director

Schedule to Tender

S.No.	Particulars	Qty.	Place of supply																																				
1.	<p>Digital Single Lens Reflex Camera 20.2 MP with Kit (EF 24-105 mmf4L IS USM) :</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="background-color: #e0e0e0;">Type</td> </tr> <tr> <td>Type</td> <td>Digital, single-lens reflex, AF/AE camera</td> </tr> <tr> <td>Recording Media</td> <td>SD memory card, SDHC memory card*, SDXC memory card* * Compatible with UHS-I</td> </tr> <tr> <td>Image Sensor Size</td> <td>Approx. 35.8 x 23.9mm</td> </tr> <tr> <td>Compatible Lenses & Lens Mount</td> <td>EF lenses & EF Mount</td> </tr> <tr> <td colspan="2" style="background-color: #e0e0e0;">Image Sensor</td> </tr> <tr> <td>Type</td> <td>CMOS sensor</td> </tr> <tr> <td>Effective Pixels</td> <td>Approx. 20.20 megapixels</td> </tr> <tr> <td>Aspect Ratio</td> <td>3:2</td> </tr> <tr> <td>Dust Deletion Feature</td> <td>Auto, Manual, Dust Delete Data appending</td> </tr> <tr> <td colspan="2" style="background-color: #e0e0e0;">Recording System</td> </tr> <tr> <td>Recording Format</td> <td>Design rule for Camera File System 2.0</td> </tr> <tr> <td>Image Type</td> <td>JPEG, RAW (14-bit Canon original), RAW+JPEG simultaneous recording enabled</td> </tr> <tr> <td>Recorded Pixels</td> <td>L (Large),M (Medium),S1 (Small 1),S2 (Small 2), S3 (Small 3), EAW, M-RAW, S-RAW</td> </tr> <tr> <td>File Numbering</td> <td>Continuous, auto reset, manual reset</td> </tr> <tr> <td colspan="2" style="background-color: #e0e0e0;">Image Processing During Shooting</td> </tr> <tr> <td>Picture Style</td> <td>Auto, Standard, Portrait, Landscape, Neutral, Faithful, Monochrome, User Def. 1 - 3</td> </tr> <tr> <td>White Balance</td> <td>Auto, Preset (Daylight, Shade, Cloudy, Tungsten light, White fluorescent light, Flash), Custom, Colour temperature setting (Approx.</td> </tr> </table>	Type		Type	Digital, single-lens reflex, AF/AE camera	Recording Media	SD memory card, SDHC memory card*, SDXC memory card* * Compatible with UHS-I	Image Sensor Size	Approx. 35.8 x 23.9mm	Compatible Lenses & Lens Mount	EF lenses & EF Mount	Image Sensor		Type	CMOS sensor	Effective Pixels	Approx. 20.20 megapixels	Aspect Ratio	3:2	Dust Deletion Feature	Auto, Manual, Dust Delete Data appending	Recording System		Recording Format	Design rule for Camera File System 2.0	Image Type	JPEG, RAW (14-bit Canon original), RAW+JPEG simultaneous recording enabled	Recorded Pixels	L (Large),M (Medium),S1 (Small 1),S2 (Small 2), S3 (Small 3), EAW, M-RAW, S-RAW	File Numbering	Continuous, auto reset, manual reset	Image Processing During Shooting		Picture Style	Auto, Standard, Portrait, Landscape, Neutral, Faithful, Monochrome, User Def. 1 - 3	White Balance	Auto, Preset (Daylight, Shade, Cloudy, Tungsten light, White fluorescent light, Flash), Custom, Colour temperature setting (Approx.	01 No.	CAZRI, Jodhpur
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	2500 - 10000K), White balance correction, and White balance bracketing possible and Flash colour temperature information transmission enabled	
Noise Reduction:	Applicable to long exposures and high ISO speed shots	
Automatic Image Brightness Correction	Auto Lighting Optimizer	
Highlight Tone Priority	Enabled	
Lens Aberration Correction	Peripheral illumination correction, Chromatic aberration correction	
Viewfinder		
Type	Eye-level pentaprism	
Coverage	Vertical / horizontal approx. 97% (with Eye point approx. 21mm)	
Magnification	Approx. 0.71x (-1m ⁻¹ with 50mm lens at infinity)	
Eye Point	Approx. 21mm (from eyepiece lens center at -1m ⁻¹)	
Built-in Dioptic Adjustment	Approx. -3.0 - +1.0 m ⁻¹ (dpt)	
Focusing Screen	Eg-A II provided, interchangeable	
Electronic Level	Horizontal: 1° increments, ±9° * During horizontal shooting only	
Mirror	Quick-return type	
Depth-of-field Preview	Enabled	
Autofocus		
Type	TTL secondary image-registration, phase detection	
AF Points	11 AF points	
	Center:	Cross-type AF at f/5.6
	Center:	Vertical line-sensitive AF at f/2.8
Focusing Brightness Range	EV -3 - 18 (at center AF point [sensitive to f/2.8 and f/5.6], room temperature, ISO 100)	
Focus Operation	One-Shot AF, AI Servo AF, AI Focus AF, Manual focusing (MF)	
AI Servo AF Characteristics, AF Fine Adjustment & AF-assist Beam	Enabled	
Exposure Control		
Metering Modes	63-zone TTL full-aperture metering • Evaluative metering (linked to all AF points) • Partial metering (Approx. 8.0% of viewfinder at center) • Spot metering (Approx. 3.5% of viewfinder at center) • Center-weighted average metering	
Metering Range	EV 1 - 20 (at room temperature with EF50mm f/1.8 lens, ISO 100)	
Exposure Control	Program AE (Scene Intelligent Auto, Creative Auto, Special scene (Portrait, Landscape, Close-up, Sports, Night Portrait, Handheld Night Scene, HDR Backlight Control), Program), Shutter-priority AE, Aperture-priority AE, Manual exposure, Bulb exposure	
ISO Speed (Recommended Exposure Index)	Basic Zone modes*:	ISO 100 - 12800 set automatically
	* Landscape: ISO 100 - 1600 set automatically, Handheld	
	Night Scene:	ISO 100 - 25600 set automatically
	P, Tv, Av, M, B:	Auto ISO, ISO 100 - 25600 (in 1/3 - or whole-stop increments), or ISO expansion to L (equivalent to ISO 50), H1 (equivalent to ISO 51200), H2 (equivalent to ISO 102400)
ISO Speed Settings, Exposure Compensation & AE lock	Enabled	
HDR Shooting		
Dynamic Range Adjustment	Auto, ±1 EV, ±2 EV, ±3 EV	
Auto Image Align	Enabled	
Multiple Exposures		
Number of Multiple Exposures	2 to 9 exposures	

Multiple-exposure control	Additive, Average	
Shutter		
Type	Electronically-controlled, focal-plane shutter	
Shutter Speeds	1/4000sec. to 30secs., bulb, X-sync at 1/180sec.	
Drive System		
Drive Modes	Single shooting, Continuous shooting, Silent single shooting, Silent continuous shooting, 10-secs. self-timer / remote control, 2-secs. self-timer / remote control	
Continuous Shooting Speed	Continuous shooting:	Max. approx. 4.5 shots/sec.
	Silent continuous shooting:	Max. approx. 3.0 shots/sec.
Max. burst	JPEG Large / Fine:	Approx. 73 shots (Approx. 1250 shots)
	RAW:	Approx. 14 shots (Approx. 17 shots)
	RAW+JPEG Large / Fine:	Approx. 7 shots (Approx. 8 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) and an 8GB card.	
External Speedlite		
Compatible Speedlites	EX-series Speedlites	
Flash Metering	E-TTL II autoflash	
Flash Exposure Compensation	±3 stops in 1/3- or 1/2-stop increments	
FE Lock, PC Terminal & External Speedlite Control *	Enabled & * Compatible with radio wireless flash photography.	
Live View Shooting		
Aspect Ratio Settings	3:2, 4:3, 16:9, 1:1	
Focus Methods	FlexiZone - Single, Face detection Live mode (contrast detection), Quick mode (phase-difference detection), Manual focusing (Approx. 5x / 10x magnification possible)	
Focusing Brightness Range	EV 0 - 20 (with contrast detection, at room temperature, ISO 100)	
Metering Modes	Evaluative metering (315 zones), Partial metering (approx. 11% of Live View screen), Spot metering (approx. 3% of Live View screen), Center-weighted average metering	
Metering Range	EV 0 - 20 (at room temperature with EF50mm f/1.4 USM lens, ISO 100)	
Silent Shooting	Provided (Mode 1 and 2)	
Grid Display	Three 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), 1280x720 (HD), 640X480 (SD)	30p / 25p / 24p; 60p/50p; 30p/25p
	30p: 29.97fps, 25p: 25.00fps, 24p: 23.976fps, 60p: 59.94fps, 50p: 50.00fps	
Compression Method	IPB, ALL-I (I-only)	
File Size	1920 x 1080 (30p / 25p / 24p) / IPB; 1920x1080 (30p / 25p / 24p) / ALL-I; 1280 x 720 (60p / 50p) / IPB; 1280 x 720 (60p / 50p) / ALL-I; 640 x 480	Approx. 235MB/min; Approx. 685MB/min; Approx. 205MB/min; Approx. 610MB/min; Approx. 78MB/min.

	(30p / 25p) / IPB	
	Card reading / writing speed necessary for movie shooting: IPB: at least 6MB per sec. ALL-I: at least 20MB per sec.	
Metering Modes	Center-weighted average and Evaluative metering with the image sensor * Automatically set by the focusing mode.	
Metering Range	EV 0 - 20 (at room temperature 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 (±5 stops for still photos)	
ISO Speed (Recommended exposure index)	With autoexposure: Auto ISO (automatically set within ISO 100 - ISO 12800), Maximum and minimum ISO speeds can be changed in Creative Zone modes	
	With manual exposure:	Auto ISO (automatically set within ISO 100 - ISO 12800), ISO 100 - ISO 12800 set manually (in 1/3- or whole-stop increments), expandable to H (equivalent to ISO 16000 / 20000 / 25600)
Time Code	Enabled	
Drop Frames	Compatible with 60p / 30p	
Video Snapshots	Settable to 2secs. / 4secs. / 8secs.	
Sound Recording	Built-in monaural microphone, external stereo microphone terminal provided Sound recording level adjustable, wind filter provided, attenuator provided	
Grid Display	Three types	
Still Photo Shooting	Enabled	
LCD Monitor		
Type	TFT colour, liquid-crystal monitor	
Monitor size	Wide, 7.7cm (3.0-in.) (3:2)	
Dots	Approx. 1.04 million dots	
Brightness Adjustment	Manual (7 levels)	
Electronic Level	Provided	
Interface Languages	25	
Playback		
Image Display Formats	Single image display, Single image + Info display (Basic info, shooting info, histogram), 4-image index, 9-image index	
Highlight Alert	Overexposed highlights blink	
AF Point Display	Enabled	
Grid Display	Three types	
Zoom Magnification	Approx. 1.5x - 10x, starting magnification and position settable	
Image Browsing Methods	Single image, jump by 10 or 100 images, by shooting date, by folder, by movies, by stills, by rating	
Image Rotate & Ratings	Enabled	
Movie Playback	Enabled (LCD monitor, video / audio OUT, HDMI OUT), built-in speaker	
Slide Show, Background Music, Image Protect	Enabled	
Post-Processing of Images		
In-camera RAW Image Processing	Brightness correction, White balance, Picture Style, Auto Lighting Optimizer, High ISO speed noise reduction, JPEG image-recording quality, Colour space, Peripheral illumination correction, Distortion correction, and Chromatic aberration correction	
Resize	Enabled	
Direct Printing		
Compatible Printers	Pict-Bridge-compatible printers	
Printable Images	JPEG and RAW images	
Print Ordering	DPOF Version 1.1 compatible	

Custom Functions		
Custom Functions	20	
Custom Shooting Modes	Mode Dial's C1 / C2	
Copyright Information	Entry and inclusion enabled	
Interface		
Audio / Video OUT / Digital Terminal	Analog video (Compatible with NTSC / PAL) / stereo audio output Computer communication, Direct printing (Hi-Speed USB or equivalent), GPS Receiver GP-E2 connection	
HDMI Mini OUT Terminal	Type C (Auto switching of resolution), CEC-compatible	
External Microphone IN Terminal	φ3.5 mm stereo mini-jack	
Remote Control Terminal	Compatible with N3-type remote controller	
Wireless Remote Control	Remote Controller RC-6	
Eye-Fi Card	Compatible	
Power		
Battery	Battery Pack LP-E6 (Quantity 1) * AC power can be supplied via AC Adapter Kit ACK-E6. * With Battery Grip BG-E13 attached, size-AA / LR6 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 viewfinder shooting:	Approx. 1090 shots at room temperature (23°C / 73°F)
		Approx. 980 shots at low temperature (0°C / 32°F)
	With Live View shooting:	Approx. 220 shots at room temperature (23°C / 73°F)
		Approx. 190 shots at low temperature (0°C / 32°F)
Movie Shooting Time	Approx. 1hr. 35mins. at room temperature (23°C / 73°F) Approx. 1hr. 25mins. at low temperature (0°C / 32°F) (With a fully-charged Battery Pack LP-E6)	
Wireless LAN (WG)		
Standards Compliance	IEEE802.11b, IEEE802.11g, IEEE802.11n	
Transmission Method	DS-SS modulation (IEEE 802.11b) OFDM modulation (IEEE 802.11g, IEEE 802.11n)	
Transmission Range	Approx. 30m / 98.4ft. * With no obstructions between the transmitting and receiving antennas and no radio interference * With a large, high-performance antenna attached to the wireless LAN access point	
Transmission Frequency (Central Frequency)	Frequency:	2412 ~ 2462MHz
	Channels:	1 ~ 11ch
Connection Method	Infrastructure mode*, ad hoc mode, camera access point mode * Wi-Fi Protected Setup supported	
Security	Authentication method:	Open system, Shared key, WPA-PSK, WPA2-PSK
	Encryption:	WEP, TKIP, AES
Network Functions (WG)		
Transfer Images between Cameras	Transferring one image Transferring selected images Transferring resized images	
Connection to Smartphones	Images can be viewed, controlled, and received using a smartphone. Remote control of the camera using a smartphone	
Remote Operation using EOS Utility	Remote control functions and image viewing functions of EOS Utility can be used via a wireless LAN	
Print from Wi-Fi Printers	Images to be printed can be sent to a printer supporting DPS over IP	
Send Images to A Web Service	A link can be sent to Facebook*, Twitter, or email address. Send movies in the camera to YouTube. * Also images uploadable directly to Facebook.	

View Images Using A Media Player	Images can be viewed using a DLNA-compatible media player
Dimensions and Weight	
Dimensions (W x H x D)	Approx. 144.5 x 110.5 x 71.2mm / 5.7 x 4.4 x 2.8 in.
Operating Environment	
Working Temperature Range	0°C - 40°C / 32°F - 104°F
Working Humidity	85% or less
Battery Pack	
Type	Rechargeable lithium-ion battery
Rated Voltage	7.2V DC
Battery Capacity	1800mAh
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.
Battery Charger 1	
Compatible Battery	Battery Pack lithium-ion battery
Recharging Time	Approx. 2hrs. 30mins.
Rated Input	100 - 240V AC (50 / 60Hz)
Rated Output	8.4V DC / 1.2A
Working Temperature Range	5°C - 40°C / 41°F - 104°F
Working Humidity	85% or less
Dimensions (W x H x D)	Approx. 69.0 x 33.0 x 93.0mm / 2.7 x 1.3 x 3.7in.
Weight	Approx. 130g / 4.6oz.
Battery Charger 2	
Compatible Battery	Battery Pack lithium-ion battery
Power Cord Length	Approx. 1m / 3.3ft.
Recharging Time	Approx. 2hrs. 30mins.
Rated Input	100 - 240V AC (50 / 60 Hz)
Rated Output	8.4V DC / 1.2A
Working Temperature Range	5°C - 40°C / 41°F - 104°F
Working Humidity	85% or less
Dimensions (W x H x D)	Approx. 69.0 x 33.0 x 93.0mm / 2.7 x 1.3 x 3.7in.
Weight	Approx. 125g / 4.4oz. (excluding power cord)

N.B.: After Installation and Demo there need to be a week long Training cum Practical part need to be included. Subsequent problem solving mechanism during equipment operations need to be clarified and included.

**Asstt. Administrative Officer (S)
for Director**