BIDHAN CHANDRA KRISHI VISWAVIDYALAYA
BCKV-ICARDA Collaborative Ad-hoc Research Project on
"Economic Impact Assessment of Improved Technology Adopted by Lentil Growers in West Bengal"

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Principal Investigator

TENDER NOTICE

Sealed quotations are invited from the competent and bonafide parties/distributors/dealers/ agents / manufacturers having registration of VAT for the best offer price to supply of **the items as furnished below** for **BCKV-ICARDA Collaborative Ad-hoc Research Project on "Economic Impact Assessment of Improved Technology Adopted by Lentil Growers in West Bengal" (Code: 11068)** within 10 days **(latest by 31st July 2019 within 5:00 PM)** from the issue of this notice as per the specification requirements mentioned against each item.

Sl.No.	Items	Technical Specification	Rate per unit (Rs.)
1	**Laptop with Laser Printer cum Scanner**	**Laptop Specification:** 14-inch Laptop (7th Gen Core i3-7020U/4GB/1TB/DOS/Integrated Graphics), Black **Colour:** Black, Item **Height:** 22 mm. **Item width:** 24.2 cm. **Screen Size:** 14 inches **Maximum display resolution:** 1366×768 **Product dimensions:** 32.9×24.2×2.2 cm. **Batteries:** 1 Lithium polymer batteries required (included) **Processor Brand:** Intel Processor **Type:** Corei3 **RAM Size:** 4 GB Memory **Technology:** DDR4 **Maximum Memory Supported:** 32 GB **Hard Drive Size:** 1 TB **Hard Disk Technology:** Mechanical Hard Drive **Speaker Description:** Stereo with Dolby® Advanced AudioTM, Lync-certifed, Smart Audio speaker support **Graphics Coprocessor:** Integrated Graphics **Connectivity Type:** Wi-Fi, Bluetooth **Number of USB 2.0 Ports:** 1 **Number of USB 3.0 Ports:** 1 **Number of HDMI Ports:** 1 **Number of Audio-out Ports:** 1 **Number of Ethernet Ports:** 1 **Number of Microphone Ports:** 1 **Operating System:** DOS **Lithium Battery Energy Content:** 45 Watt Hours **Number of Lithium Ion Cells:** 3 **Included Components:** Laptop and AC Adapter	

		Printer Specification: Printer Type - LaserJet; Functionality - Multi-Function (Print, Scan, Copy) , Scanner type - Flatbed; Printer Output - Black & White only	
		• Connectivity - USB ; Dual digit numeric LED display	
		• Pages per minute - 18 pages ; Cost per page - Rs 2 (Black & White) - As per ISO standards	
		• Page size supported - A4, A5, B5, C5, C6, DL, Postcard ; Duplex Print - Manual ; Print resolution - Up to 600 x 600 DPI (1200 DPI effective)	
		• Compatible Laser Toner - 88A Black Original LaserJet Toner Cartridge, Page Yield - 1500 pages	
		• Warranty - 1 year from the date of purchase	
2	**Digital Camera**	**Model Specification:** **Type:** Compact digital camera **Effective pixels:** 16.0million (Image processing may reduce the number of effective pixels.) **Image sensor:** 1/2.3-in.type, CMOS, Total pixels: approx.16.76million **Lens:** Lens with 40x optical zoom **Focal length:** 4.0to, 160mm, (angle of view equivalent to that of 22.5 to 900 mm lens in 35mm [135] format) **Maximum aperture:** f/3, to6.5 **Construction:** 12elements in, 9groups, (3 ED lens elements) **Digital zoom magnification:** Up to 4x (angle of view equivalent to that of approx. 3600 mm lens in 35mm [135] format) **Vibration reduction:** Lens-shift VR (still images), Lens shift and electronic VR (movies) **Autofocus system:** Contrast-detect AF **Focus range:** [W]: Approx.30 cm (1 ft) to ∞, [T]: Approx.3.5 m (11 ft) to ∞, Macromode: Approx., 1 cm (0.4 in.) to ∞ (wide-angle position), (All distances measured from center of front surface of lens) **Monitor size:** 7.5cm (3-in.) diagonal **Monitor resolution:** Approx.921k-dot, wide viewing angle TFT LCD with anti-reflection coating and 5-level brightness adjustment, tiltable approx. 85° downward, approx. 90° upward **Frame coverage (shooting mode):** Approx. 99% horizontal and vertical (compared to actual picture) **Frame coverage (playback mode):** Approx. 99% horizontal and vertical (compared to actual picture) **Media:** SD, SDHC, SDXC, Internal memory (approx. 20 MB) **File system:** DCF and Exif 2.3 compliant **File formats:** Still images: JPEG Movies: MP4 (Video: H.264/MPEG-4 AVC, Audio: AAC stereo	

Image size (pixels): 16M (High) [4608 x 3456(Fine)] 16M [4608 x 3456] 8M [3264 x 2448] 4M [2272 x 1704] 2M [1600 x 1200] VGA [640x 480] 16:9 [4608 x 2592] 1:1 [3456 x 3456]

ISO sensitivity (Standard output sensitivity): ISO125, to1600, ISO 3200, 6400 (available when using Auto mode)

Metering method: Matrix, center-weighted (digital zoom less than 2x), spot (digital zoom 2x or more)

Exposure modes: Programmed auto exposure and exposure compensation (–2.0 to +2.0 EV in steps of 1/3 EV)

Shutter type: Mechanical and CMOS electronic shutter Shutter speed: 1/1500to, 1s, 1/4000 s (maximum speed during high-speed continuous shooting) 25 s (Nightscape + star trails and Star trails in Multiple exp. Lighten scene mode)

Self-timer: 10 s, 2 s 5 s (self-portrait timer)

Type: Electronically-controlled ND filter (–2 AV) selection

Range: 2 steps (f/3 and f/6 [W])

Built-in flash: Yes

Range (approx.) (ISO sensitivity: Auto): [W]: 0.5 to 6.9 m (1 ft 8 in. to 22 ft) [T]: 3.5 m (11 ft)

Control: TTL auto flash with monitor preflashes

USB connector: Hi-Speed USB, Supports Direct Print (PictBridge) Audio/video output connector (NTSC or PAL can be selected)

HDMI output connector: HDMI micro connector (Type D)

DC input connector: For EH-67/EH-67s AC Adapter (available separately)

Standards: IEEE 802.11b/g (standard wireless LAN protocol)

Operating frequency: 2412 to 2462 MHz (1 to 11 channels)

Security: Authentication: Open system, WPA2-PSK

Communication protocols: Bluetooth Specification Version 4.1

Supported languages for camera menus: Arabic, Bengali, Bulgarian, Chinese (Simplified and Traditional), Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hindi, Hungarian, Indonesian, Italian, Japanese, Korean, Marathi, Norwegian, Persian, Polish, Portuguese (European and Brazilian), Romanian, Russian, Serbian, Spanish, Swedish, Tamil, Telugu, Thai, Turkish, Ukrainian, Vietnamese

Power source: Four LR6/L40 (AA-size) alkaline batteries Four FR6/L91 (AA-size) lithium batteries Four EN-MH2 Rechargeable Ni-MH batteries (available separately) EH-67/EH-67s AC Adapter (available separately)

Battery life of still shooting: Approx. 600 shots when using alkaline batteries(*1) Approx. 1240 shots when using lithium batteries(*1) Approx. 750 shots when using EN-MH2 batteries(*1)

		Battery life of movies (actual battery life for recording): Approx. 1 h 30 min when using alkaline batteries(*1)(*2) Approx. 4 h 30 min when using lithium batteries(*1)(*2) Approx. 2 h 35 min when using EN-MH2 batteries(*1)(*2) **Tripod socket:** 1/4 (ISO 1222) **Dimensions (WxHxD):** Approx.113.5, x78.3, x94.9mm (4.5, x3.1, x3.8in.), (excluding projections) **Weight:** Approx.542g (1 lb 3.2 oz), (including LR6/L40 (AA-size) alkaline batteries and memory card) **Temperature:** 0°C to 40°C (32°F to 104°F) **Humidity:** 85% or less (no condensation) **Supplied Accessories:** Camera Strap, LR6/L40 (AA-size) Alkaline Batteries (x4)(The included batteries are for trial use only.), LC-CP31 Lens Cap (with cord), UC-E16 USB Cable	

Each party has to abide by the terms and conditions mentioned here under and any breach, abrogation of the same will automatically lead to cancellation of tender / quotation.

1. The rate (Rs.) should be quoted item wise.

Tender must be addressed to the **Principal Investigator, BCKV-ICARDA Collaborative Ad-hoc Research Project on "Economic Impact Assessment of Improved Technology Adopted by Lentil Growers in West Bengal", Directorate of Research, BCKV, Kalyani, Nadia-741 235, West Bengal.**

The authority reserves the right to reject any quotation without assigning any reasons whatsoever

(Soumitra Chatterjee)
Principal Investigator

Copy for display in the notice board as per list:

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