



INDIAN INSTITUTE OF TECHNOLOGY dhArwAD
ChikkamalligawAD, dhArwAD, KarnATaka - 580011

For the “Supply of Video camera, still camera and Camera Lens” INDIAN INSTITUTE OF TECHNOLOGY DHARWAD

NOTICE INVITING QUOTATIONS FOR LOCAL PURCHASE

1.	LPC No.		IITDH/MMD/LPC/PRO/2025-26/26
2.	Description		For the “Supply of Video camera, still camera and Camera Lens” INDIAN INSTITUTE OF TECHNOLOGY DHARWAD
3.	Specifications & Quantity		Annexure Attached
4.	Procurement Category		OH-35, AVE
5.	Procurement Type		Local Purchase
6.	Submission of Quotation: by email to mmd.office@iitdh.ac.in and armm@iitdh.ac.in		
7.	Cover No.	Cover Type	Description
	1	Financial/ Price	Commercial Bid
8.	Form of Contract		Buy/Supply
9.	Bid Validity (Days):		30 Days
10.	Period of Work/Delivery Period (Days)		Delivery period of materials 20 days
11.	Payment Terms		Within 15 days from the date of delivery and receipt.
12.	Delivery Location		IIT dhArwAD Permanent Campus, ChikkamalligawAD, dhArwAD-580011, Karnataka, India
13.	Pin Code		580011
14.	Quotation Inviting Authority:		Assistant Registrar (MMD), IIT dhArwAD Address: IIT dhArwAD Permanent Campus, ChikkamalligawAD, dhArwAD-580011, Karnataka, India

Annexure

Detailed Specifications for Video camera

Quantity - 1 (One)

Category	Specification
Camera Type	Professional 4K Compact Camcorder
Sensor	1.0" Exmor RS CMOS (13.2 x 8.8 mm), stacked sensor with DRAM
Effective Pixels	Approx. 14.2 MP (16:9 aspect ratio)
Lens	ZEISS Vario-Sonnar T* 12x optical zoom (29mm wide to 348mm telephoto equivalent, 35mm format)
Zoom	- Optical: 12x
	- Clear Image Zoom: 18x (4K), 24x (HD)
	- Digital Extender: 48x (HD)
Aperture Range	f/2.8 (wide) – f/4.5 (telephoto)
Focus System	Fast Hybrid AF (phase-detection + contrast-detection)
Minimum Focus Distance	10 mm (wide), 800 mm (telephoto)
ND Filters	Built-in mechanical filter wheel: Clear, 1/4, 1/16, 1/64
Shutter Speed	1/8 to 1/10,000 sec
Gain (ISO Equivalent)	-3 to +33 dB (AGC)
Minimum Illumination	Standard 60i: 3 lux (1/60 sec)
	LowLux 60i: 1.7 lux (1/30 sec)
White Balance	Auto, Manual (2300K–15,000K), Presets (Indoor 3200K, Outdoor 5600K), One-push WB
Recording Formats	- XAVC QFHD (4K UHD, 3840x2160) at 100 Mbps
	- XAVC HD (Full HD) at 50 Mbps
	- AVCHD
	- MPEG HD 422 (optional firmware)
Frame Rates	4K UHD: Up to 30 fps
	Full HD: Up to 120 fps (slow/quick motion supported)
Slow & Quick Motion	Full HD: 1–120 fps
	High frame rate up to 960 fps (with limitations)
Video Bitrate	Up to 100 Mbps (4K UHD)
Audio Inputs	2x XLR inputs with phantom power support
Audio Recording	16-bit 4-channel digital audio
Viewfinder	0.39" OLED, 2.36 million dots
LCD Monitor	3.5" LCD, 1.55 million dots, adjustable angle



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Media Slots	Dual SD/SDHC/SDXC card slots for relay or simultaneous recording
Connectivity	- HDMI output
	- 3G-SDI output
	- Composite (BNC) output
Remote Control	Wired and wireless (optional accessories)
Power	Sony V-Series rechargeable battery pack
Battery Life	Approx. 120 minutes continuous (varies by settings)
Dimensions (W x H x D)	174 x 183 x 328 mm
Weight	Approx. 1.1 kg (body only)
Operating Temperature	0 °C to 40 °C
Storage	Internal cache memory for temporary recording
Other Features	- Built-in stereo microphones
	- Dual Gain Control
	- Timecode In/Out
	- Zebras, Focus Assist, Histogram, Peaking
	- Ethernet port for streaming (optional)

Detailed Specifications for Still camera and Camera Lens

Quantity - 1 (One each)

Still camera

Specification	Details
Sensor Type	APS-C CMOS (23.5 x 15.6 mm)
Effective Pixels	24.2 MP
Image Processor	BIONZ X
ISO Range	100–32,000 (expandable to 102,400)
Image Stabilization	None (lens-based stabilization supported)
Continuous Shooting	Up to 11 fps
Autofocus Points	425 phase-detection & contrast-detection points
Viewfinder	2.36M-dot OLED EVF, 100% coverage, 1.07x magnification
Video Resolution	4K UHD (3840 x 2160) up to 30p
Slow Motion Video	1080p up to 120 fps
Video Output	4:2:2 8-bit via HDMI
Audio Input	3.5mm microphone jack



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Internal Recording Formats	XAVC S, AVCHD
LCD Screen	3.0-inch tilting touchscreen, 921,600 dots
Build Material	Magnesium alloy body
Dimensions (W x H x D)	120 x 66.9 x 59.7 mm
Weight (Body Only)	359 g
Battery	NP-FW50 rechargeable lithium-ion
Battery Life	Approx. 360 shots per charge
Charging Port	Micro-USB
Ports	Micro-HDMI, USB, Hot Shoe
Built-in Flash	Guide number 6.0 m at ISO 100
Flash Sync Speed	Up to 1/160 sec
Weather Resistance	No official rating
Tripod Mount	Standard 1/4"-20 thread

Camera Lens

Category	Specification
Model	B070
Mount Compatibility	Sony E-mount (APS-C format)
Focal Length	17–70mm (25.5–105mm equivalent on full-frame)
Maximum Aperture	f/2.8 (constant throughout zoom range)
Angle of View	79°55' to 23°00' (diagonal, APS-C format)
Optical Construction	16 elements in 12 groups
Minimum Object Distance	0.19m (7.5 in) at 17mm, 0.39m (15.4 in) at 70mm
Maximum Magnification	1:4.8 at 17mm, 1:5.2 at 70mm
Vibration Compensation	Yes (VC)
Filter Size	67mm
Maximum Diameter	74.6mm (2.94 in)
Length	119.3mm (4.7 in)
Weight	525g (18.5 oz)
Aperture Blades	9 (circular diaphragm)
Minimum Aperture	f/22
Included Accessories	Flower-shaped hood, lens caps