



**AZAD JAMMU & KASHMIR  
ENVIRONMENTAL PROTECTION AGENCY  
2<sup>nd</sup> Floor, AKLASC Building Complex, Bank Square,  
MUZAFFARABAD, AJ&K**



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environmental Protection Agency  
**Dispatch No: 2335-37**  
Date: 5-12-2019  
Time: 11 11

**TENDER NOTICE**

Sealed Tenders under *Single Stage - One Envelopes Procedure* are invited for AJ&K Environmental Protection Agency (AJK-EPA) from registered firms having NTN and GST for the supply of office machinery & equipment with following specifications. -

S. No.	Category of work	QTY	Specification													
1	Laptop	01	<ul style="list-style-type: none"> <li>Windows 10 Pro 64, Intel® Core™ i7 9750H (2.6 GHz, up to 4.5 GHz, 12 MB cache, 6 cores+ NVIDIA® GeForce® GTX 1660 Ti (6 GB GDDR6) 17.3" diagonal FHD 60 Hz IPS anti-glare WLED-backlit (1920 x 1080) 16 GB DDR4-2666 SDRAM (2 x 8 GB) equivalent or more.</li> <li>512 GB PCIe® NVMe™ M.2 SSD 1 TB 7200 rpm SATA; 512 GB PCIe® NVMe™ M.2 SSD minimum.</li> <li>Bang &amp; Olufsen, dual speakers, HP Audio Boost 2.0, Omen Audio Control Support DTS:X® Ultra minimum, Precision Touchpad Support, Integrated 10/100/1000 GbE LAN, 1 multi-format SD media card reader minimum.</li> <li>1 USB 3.1 Gen 2 Type-C™ (10 Gb/s signaling rate, DisplayPort™ 1.4, HP Sleep and Charge); 1 USB 3.1 Gen 1 (HP Sleep and Charge); 2 USB 3.1 Gen 1 (Data Transfer Only); 1 headphone/microphone combo, 230 W Smart AC power adapter equivalent or more.</li> <li>ENERGY STAR® certified; EPEAT® Silver registered</li> <li><b>WARRANTY</b> 1-year hardware warranty</li> </ul>	Or equivalent												
2	Integrated System of Multimedia and Tele/Video Conferences & Screen sharing	01	<table border="1"> <tr> <td>i. Package</td> <td>Full HD 1080p camera, codec, Microphone Array, cables, and remote control</td> </tr> <tr> <td>ii. Video Standards and Resolutions</td> <td>Supportive to; <ul style="list-style-type: none"> <li>Minimum H.323, SIP standards for communications.</li> <li>Minimum H.261, H.263, H.264 AVC/ SVC, H.264 High Profile</li> <li>Minimum 1080p 60 fps, 1080p 30 fps, 720p 60 fps and 720p 30fps</li> </ul> </td> </tr> <tr> <td>iii. Content Standards and Resolutions</td> <td>Supportive to; <ul style="list-style-type: none"> <li>Content sharing using standard based H.239 and BFCP over SIP. It should also support audio from PC used for content sharing.</li> <li>Both people and content simultaneously to the far end location at 1080p @30 fps</li> </ul> </td> </tr> <tr> <td>iv. Audio Standards and Features</td> <td>Supporting to; <ul style="list-style-type: none"> <li>G.711, G.728, G.729A, G.722, G.722.1, AAC-LD or better</li> <li>20kHz bandwidth or better with crystal clear audio and stereo sound.</li> <li>Automatic Gain Control and Automatic Noise Suppression</li> <li>Keyboard noise reduction and instant adaptation echo cancellation</li> </ul> </td> </tr> <tr> <td>v. Video and Audio Inputs</td> <td> <ul style="list-style-type: none"> <li>Minimum 1 x HD input for connecting main HD camera</li> <li>Minimum 1 x HDMI/DVI input for connecting PC/Laptop to share HD content</li> <li>Minimum 1 x Microphone Input (Support for minimum 2 mics)</li> <li>Minimum 1 x 3.5mm stereo line-in</li> </ul> </td> </tr> <tr> <td>vi. Video and Audio Outputs</td> <td> <ul style="list-style-type: none"> <li>1 x HDMI output for connecting main monitor</li> </ul> </td> </tr> </table>	i. Package	Full HD 1080p camera, codec, Microphone Array, cables, and remote control	ii. Video Standards and Resolutions	Supportive to; <ul style="list-style-type: none"> <li>Minimum H.323, SIP standards for communications.</li> <li>Minimum H.261, H.263, H.264 AVC/ SVC, H.264 High Profile</li> <li>Minimum 1080p 60 fps, 1080p 30 fps, 720p 60 fps and 720p 30fps</li> </ul>	iii. Content Standards and Resolutions	Supportive to; <ul style="list-style-type: none"> <li>Content sharing using standard based H.239 and BFCP over SIP. It should also support audio from PC used for content sharing.</li> <li>Both people and content simultaneously to the far end location at 1080p @30 fps</li> </ul>	iv. Audio Standards and Features	Supporting to; <ul style="list-style-type: none"> <li>G.711, G.728, G.729A, G.722, G.722.1, AAC-LD or better</li> <li>20kHz bandwidth or better with crystal clear audio and stereo sound.</li> <li>Automatic Gain Control and Automatic Noise Suppression</li> <li>Keyboard noise reduction and instant adaptation echo cancellation</li> </ul>	v. Video and Audio Inputs	<ul style="list-style-type: none"> <li>Minimum 1 x HD input for connecting main HD camera</li> <li>Minimum 1 x HDMI/DVI input for connecting PC/Laptop to share HD content</li> <li>Minimum 1 x Microphone Input (Support for minimum 2 mics)</li> <li>Minimum 1 x 3.5mm stereo line-in</li> </ul>	vi. Video and Audio Outputs	<ul style="list-style-type: none"> <li>1 x HDMI output for connecting main monitor</li> </ul>	Or equivalent
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*Handwritten signature and date: 05/12/2019*

		Dual Display	<ul style="list-style-type: none"> <li>1 x HDMI output for connecting Secondary monitor</li> <li>Minimum 1 x 3.5 mm stereo line-out</li> </ul>	
		vii. Other Interfaces	<ul style="list-style-type: none"> <li>Minimum 1 x 10/100/1000 LAN port</li> <li>Minimum 2 x USB 2.0 for software upgrade and connecting external devices</li> <li>Minimum 1 x RS-232 mini-DIN 8-pin</li> </ul>	
		viii. Camera	<ul style="list-style-type: none"> <li>Minimum supportive to 1080p60fps with 4x and 12x optical zoom.</li> <li>Minimum support to PAN Range of +/-90°, and Tilt of +/-20°</li> </ul>	
		ix. Network Features	<ul style="list-style-type: none"> <li>IPv4 and IPv6 support from day one</li> <li>Auto Gatekeeper Discovery</li> <li>IP Precedence</li> <li>Minimum H.323 based Packet Lost Recovery</li> </ul>	
		x. Security	<ul style="list-style-type: none"> <li>Media Encryption (H.323, SIP): AES-128, AES-256</li> <li>Authenticated access to admin menus, web interface and telnet API</li> <li>Local account password policy configuration</li> </ul>	
		xi. Other Standards	<ul style="list-style-type: none"> <li>Minimum H224/H.281, H.323 Annex Q, H.225, H.245, H.241, H.239, H.243, H.460</li> </ul>	
		xii. RTV License	<ul style="list-style-type: none"> <li>It should support native integration with Microsoft Skype for business on premise Lync server &amp; SFB server.</li> <li>Auto sensing power supply</li> </ul>	
		xiii. LED TV	<ul style="list-style-type: none"> <li>Smart features</li> <li>65 Inches (actual display)</li> <li>Original brand</li> </ul>	
		The proposed system must support PAL with a PTZ camera. The codec must be based on ITU standards The VC End Point should be a codec-based hardware. No software-based solution is accepted here. All components of the VC system like Codec, Camera and Microphone should be separate units with same OEM		

### **Terms & Conditions. -**

1. All bids must be accompanied by a Bid Security @ 2% of the total value of the bid in shape of Pay Order/Demand Draft, in the favor of DDO EPA-AJK (open cheques will not be entertained). The Tender without 2% Bid Security shall be considered as Non-Responsive.
2. The bids should be —a single package, containing all information i.e. the 'Financial Proposal' and 'Technical Proposal' separately along with list of organizations/departments to which similar or other lab equipment has been supplied in the past and certificates of 'Satisfactory Service' from such organizations.
3. The Bids must reach to the office of undersigned at least on 23-12-2019 at 11:00 A.M. that shall be opened on the same day at 11:30 A.M. in, Environmental Protection Agency (EPA), 2<sup>nd</sup> Floor, AKLASC Building Complex, Bank Square Muzaffarabad, AJ&K. in the presence of bidders or their authorized representatives, who opt to attend.
4. Payments will be made to the successful bidder after deduction of all taxes applicable in AJ&K.
5. The process of Payment will be initiated after obtaining Product Evaluation Certificate from committee constituted for the purpose of Technical Evaluation.
6. This advertisement is available on AJK-PPRA website only.
7. The Technical Evaluation Committee may accept or reject any bid subject to the provisions of AJK Public Procurement Rules, 2017.

### **Addresses/Contacts**

**Postal Address:** Environmental Protection Agency (EPA), 2<sup>nd</sup> Floor, AKLASC Building Complex, Bank Square Muzaffarabad, AJ&K.

**Email Address:** [dgepa.ajk@gmail.com](mailto:dgepa.ajk@gmail.com)

**Telephone:** +92-5822-921082

**Fax:** +92-5822-921686

**(Sehrish Munsif Khan)**  
Assistant Director, EPA-AJK