List of items for project IB 2024-27

Item No.	Unit	Item Description	Qty	Unit Cost	Total Cost
1	lot	**Supply and Delivery of Wireless Interactive Visualizer (Document Camera) including Wireless Slate, Interactive Writing Tool/Pen, Sensor Bar, compatible HDMI cable, at least 16GB SD card, and carrying case/bag.** **1. Main camera. Technical specifications (minimum).** Image pick-up device: 1/2.8" Complementary metal-oxide-semiconductor (CMOS). Effective pixels: H2048, V1536. Frame rate: 30 fps. Zoom: 12x Optical zoom (8x digital zoom). Lens: f=4.0mm-48.0mm (12x zoom). Shooting area: MAX 297mm x 420mm (SXGA). Focus: Auto/Manual /Zoom/Sync. Resolution: 1080p/720p/SXGA/ WXGA/XGA. Image mode: Text1/Text2/Text3/Graphics1/ Graphics2. Flicker correction: provided. Graphical OSD: provided. Illumination lamp: white LED. White balance: Author/manual. Edge enhancement: provided. Pause: provided. Still image storage: provided. Movie storage provided. Gamma setting: provided. Slide show: provided. Image save: provided. State presetting: provided. Brightness control: provided. Support functions: provided. **Interface (minimum).** Input terminals: RGB input Mini D-sub 15P ×1, HDMI input Type A ×1, 3.5mm stereo mini jack ×1. RGB output: 1080p 720pSXGA WXGAXGA. Output terminals: RGB output Mini D-sub 15P ×1, HDMI output Type A ×1, 3.5mm stereo mini jack ×1. HDMI output: 1080p, 720p. USB 2.0: provided (for PC connection, type mini B). Memory interface: SD, USB type A. **Others.** Power source: 12VDC (AC adapter AC 100-240V). Power consumption: 16.2W. Dimensions: approximately W355 ×D373.5 ×H426.5mm (Setup); approximately W355 ×D294 ×H469mm (Folded). Weight: Approximately 3.2kg. Accessories: Power cord, AC adapter, USB cable, Remote control, AAA batteries, CD-ROM. **2. Wireless Slate/Tablet with Image Mate Accent Software or better.** Includes tablet, pen, wireless dongle, pen holder, extra core x8 (stored inside the pen holder), and USB cable(for charging and for operation). **Technical specifications (minimum).** Operating temperature: 0 to 40° C. Reading range: 8.0 x 5.0 inches (203.2 x127.0mm). Reading resolution: 0.0127mm-0.005mm. Reading accuracy: 0.3mm-0.42mm. Approximate reading speed: 266PPS when wired; 233PPS when wireless. Pen pressure level: 1024-8192 levels. Wireless band used: 2.4GHz. Communication range: Approximately 15m. Power supply: Lithium-ion battery. Continuous operation time: Approximately 15-16 hours. Auto power off time: Approximately 30-45 minutes. Full charging time: Approximately 4 hours. Consumption current when using USB 5 V: 500mA; when using lithium-ion battery 3.7V:60-67 mA. Compatible computer model: Computers equipped with standard USB port (Type A). Compatible OS: Windows 10/8.1/8/7; MAC OS X 10.15/10.14/10.13/10.12/ 10.11. External dimension (WxDxH): 12 13/32" x 10 1/8" x 29/32" (310-315 x 207-257 x 23-28 mm). Weight (including tablet, pen, wireless adapter, wireless dongle): Approximately 530g. **3. Interactive Writing Tool/Pen and Sensor Bar. Technical specifications (minimum).** Interactive pen. Dimension: 152 x 25mm.Weight: 34g (without the battery). Power: AA battery. Battery life: Approximately 2,000 hours. Auto power off: about 150 seconds. Sensor bar. Working area (white board): 1,800 x 1,200mm; Ratio 4:3, approx. 79 inches. Working area (LCD monitor): 1,450 x 850mm, Ratio 16:9, approx. 64 inches. Position accuracy: 1mm. Tracking frequency: 60 rps. Operating temperature: 10˚C - 40˚C. Dimension: Approximately 227 x 43 x 11mm. Weight: Approximately 75g. Power: USB. Power consumption: 0.5W. Continuous Op Time: Approximately 16 hours. Software: Provided and compatible. Wireless sender. Approximate dimension: 53 x 44 x 25.3mm. Weight: 26g. Wireless band: 2.4GHz. Operation temperature: 0˚C - 40˚C. Wireless communication distance: About 15m. Power consumption: Max 5V, 60mA. Power source: DC 5V. Wireless receiver. Operational temperature: 0˚C - 40˚C. Wireless band: 2.4GHz. Power source: USB bus power. Power consumption: Max 5V, 50mA. Dimension: 64 x 22 x 10mm. Weight: Approximately 11g. **4. 5 meters HDMI cable to HDMI cable 60hz/144hz ; 1 pc 16 GB SD CARD; 1 pc , Carrying Case/Bag with compartments**	3	350,000.00	**1,050,000.00**
2	lot	**Supply and Delivery of Ultra-Short Throw Interactive Projector** **Minimum Technical Specifications. Projection Technology:** RGB liquid crystal shutter projection system (3LCD). **Main Parts.** LCD Size; Native Resolution: 0.67" (D10); WUXGA. Projection Lens: Type (No optical zoom/focus (manual); F-number (1.60); Focal length (4.2mm); Zoom ratio (1.0-1.35 digital zoom); Throw ratio (0.27-0.37 wide-tele). Lamp: Type (267W UHE); Life (normal 5,000 hours/eco 10,000 hours). **Screen size (Projected distance):** 70"-100"; 90" screen 53cm. **Brightness.** White light output (normal/eco): 3,800lm/ 2,900lm; Color light output: 3,800lm. **Contrast ratio:** 16,000:1. **Internal speakers sound output:** 16W mono. **Keystone correction:** Vertical/horizontal (zoom: tele): ±3° / ±3° ; Quick corner: Yes. **Connectivity.** Analog input: D-sub 15Pin: 1 (Blue). Composite: RCAx1 (Yellow). Digital input, HDMI: 3 (HDMI1 in common with MHL). Output terminal, D-sub 15Pin: 1 (Black). Audio input, stereo mini jack: 2. Audio output, stereo mini jack: 1. USB type A: 2 (for USB memory, USB document camera, firmware update, copy OSD settings). USB type B: 1 (for USB display, mouse, K/B, control, firmware update, interactive, copy OSD settings). Microphone input: 1. RS-232C: D-sub 9pin x 1. Interactive sync: stereo mini jack IN x 1, OUT x 1. Touch unit control: yes. Wired LAN: RJ45 x 1 (100Mbps). Wireless: Optional . **Wireless specifications.** Supported speed for each mode: IEEE 802.11b: 11 Mbps; IEEE 802.11g: 54 Mbps; IEEE 802.11n: 130 Mbps. **Wireless LAN security.** WPA/WPA2-Personal. **Interactive specification.** Interactive unit: technology (infrared); input devices (interactive digital pen, easy interactive pen 1, 2); fingers (1-6 fingers); Connection to computer (USB, Network); Calibration (pen-author/manual, 25 points, finger- 16 points manual); Functions (hover, right click, auto adjust pen area). Touch unit: Maximum dimension DxWxH (51x210x95mm); Weight (450g). **Operating temperature.** Single use (below 1,500m/4921ft): 5 - 40 ° C <41 - 104 ° F> (0m / 0ft - 2,286m / 7,500ft), 5 - 35 ° C <41 - 95 ° F> (over 2,286m / 7,500ft), (20% - 80% humidity, No Condensation). Multi-projection use (below 1,500m/4921ft): 5 - 35 ° C <41 - 95 ° F> (0m / 0ft - 2,286m / 7,500ft), 5 - 30 ° C <41 - 86 ° F> (over 2,286m / 7,500ft) (20% - 80% humidity, No Condensation). **Operating altitude.** 0 - 3,000 m <0 - 9,843 ft>. **Direct power on/off:** yes. **Start-up period:** About 8 seconds, warm-up period about 30 seconds. **Cool down period:** instant off. **Air filter:** Type (Electrostatic filter); Maintenance cycle (10,000 hours). **Power supply voltage:** 100 - 240 V AC ±10%, 50/60 Hz. **Power consumption (220-240V).** Lamp on (normal/eco): 401W / 334W. Standby (Network On / Off): 3.0W / 0.32W. **Dimension Excluding Feet (D X W X H):** Approximately 447 x 474 x 130 mm. **Weight:** Approx. 8.3kg. **Fan Noise (Normal / Eco):** 37dB / 30dB.	4	150,000.00	**600,000.00**
				TOTAL	**1,650,000.00**