**TECHNICAL SPECIFICATIONS**

1. **Smart Panel**

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| **IOM’S SPECIFICATIONS / MINIMUM REQUIREMENTS** | **BIDDER'S SPECIFICATIONS** | **Indicate****COMPLY or NOT Comply** |
| **Brand**  | Global/International “Worldwide Recognition”  |  |  |
| **Type**  | LED Touch Screen Interactive Board  |  |  |
| **Display resolution**  | 4K (3840\*2160)  |  |  |
| **Effective screen size**  | 85’’  |  |  |
| **Aspect Ratio**  | 16:9 or 16:10  |  |  |
| **Multi-touch Capability**  | Simultaneous operation for at least 4 points  |  |  |
| **Display colors**  | 10 bits  |  |  |
| **Contrast ratio**  | Higher than 5000:1  |  |  |
| **Computing**  | Integrated-in RAM: 4GB Storage: 64GB CPU: 4-cores CPU GPU: dedicated card for graphics  |  |  |
| **Special interfaces**  | 1\*USB 2.0 1\*USB 3.0 Type-C 1\*VGA 2\*HDMI 1\*RJ45Ethernet LAN 1\*Wi-Fi IEEE 802.11 a/b/g/n/ac 1\*Bluetooth 1\*Audio (input and output)  |  |  |
| **Optional Features**  | Web Camera / Microphone / Built in Speakers / Light Sensor  |  |  |
| **Software**  | Required: All Drivers, Software + free upgrade for full performance during warranty period, included  |  |  |
| **Installation**  | All Accessories, Power, Data Cables, Wall Mounting shall be delivered as specified above.  |  |  |
| **Accessories**  | Wall-Mount Bracket, Remote Control, Digital Pens and Eraser, Pen tray.  |  |  |
| **Power**  | 100–240V AC, 50 Hz |  |  |
| **Warranty** | 1-year standard warranty  |  |  |

1. **LCD Projector**

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| **IOM’S SPECIFICATIONS / MINIMUM REQUIREMENTS** | **BIDDER'S SPECIFICATIONS** | **Indicate****COMPLY or NOT Comply** |
| **Brand**  | Global/International “Worldwide Recognition”  |  |  |
| **Light Source type**  | LED or LASER  |  |  |
| **Display resolution**  | Full HD 1920\*1080  |  |  |
| **Brightness**  | 3000 Ansi-Lumens  |  |  |
| **Throw ratio**  | Short  |  |  |
| **Contrast ratio**  | Higher than 5000:1  |  |  |
| **Special interfaces**  | 1\*USB 1\*VGA 1\*HDMI 1\*Wi-Fi IEEE 802.11 a/b/g/n/ac 1\*Bluetooth  |  |  |
| **Keystone correction**  | 2D correction  |  |  |
| **Installation**  | The contractor shall install and calibrate the projector according to LAF needs.  |  |  |
| **Projection Screen**  | Motorized type. Materials: made of material that makes images brighter and clearer. Installation Kit: included.  |  |  |
| **Warranty** | 1-year standard warranty  |  |  |

1. **Laptop**

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| **IOM’S SPECIFICATIONS / MINIMUM REQUIREMENTS** | **BIDDER'S SPECIFICATIONS** | **Indicate****COMPLY or NOT Comply** |
| **Brand**  | Rated and listed on Gartner or Forrester wave Top 5 in this domain  |  |  |
| **Type**  | Laptop |  |  |
| **Processor**  | Nb of Processors: 1\*Processor Family: Core i7Generation: latest generator at the time of bidding  |  |  |
| **Memory** | 16GB / DDR5 Technology  |  |  |
| **Interfaces**  | 4\*USB (3.0) / 1\*HDMI / 1\*Audio |  |  |
| **Storage**  | Disk1: SSD NVMe / 1TB Capacity Disk2: SATA Technology / 2TB Capacity / 7.2K RPM  |  |  |
| **Optical Drive** | 1\*DVD R/W  |  |  |
| **Multimedia**  | 1\*HD Webcam / 1\*Microphone & Speakers / 1\*Memory card reader  |  |  |
| **Communication**  | 1\*10/100/1000 Base-T Ethernet / 1\*WIFI 802.11a\b\g\n\ac / 1\*Bluetooth |  |  |
| **Keyboard**  | Arabic/English  |  |  |
| **Mouse**  | Optical with scroll |  |  |
| **Monitor**  | Size: 15.6’’ Inch / Full HD LED panel |  |  |
| Type: Touch Screen |
| **Battery** | Lithium-ion type, autonomy 4 Hours (based on Industry Objective Benchmarks) |  |  |
|  |  |  |
| **Accessories**  | Carrying Case, Power Kit (220VAC 50HZ) |  |  |
| **Cables**  | Power (220VAC 50HZ) and Data  |  |  |
| **Operating System** | Windows 10 Pro  |  |  |
| **Not Acceptable Models**  | Hp Products that use **Sure Sense** Technology  |  |  |
| **Warranty** | 1-year standard warranty  |  |  |

1. **Desktop Computer**

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| **IOM’S SPECIFICATIONS / MINIMUM REQUIREMENTS** | **BIDDER'S SPECIFICATIONS** | **Indicate****COMPLY or NOT Comply** |
| **Brand**  | Rated and listed on Gartner or Forrester wave Top 5 in this domain  |  |  |
| **Type**  | Desktop  |  |  |
| **Processor**  | Nb of Processors: 1\*Processor Family: Core i7Generation: latest generator at the time of bidding |  |  |
| **Memory** | 16 GB / DDR5 Technology  |  |  |
| **Interfaces**  | 4\*USB (3.0) / 1\*HDMI / 1\*Audio (MIC and loudspeakers), Ethernet port  |  |  |
| **Storage**  | Disk1: SSD NVMe / 1TB Capacity Disk2: SATA Technology / 2TB Capacity / 7.2K RPM |  |  |
| **Optical Drive** | 1\*DVD R/W |  |  |
| **Multimedia**  | 1\*Microphone & Speakers  |  |  |
| **Communication**  | 2\*10\100\1000 Base-T Ethernet  |  |  |
| **Keyboard**  | Arabic/English |  |  |
| **Mouse**  | Optical with scroll |  |  |
| **Monitor**  | Size: 24’’ Inch / Full HD LED panel |  |  |
| Type: Touch Screen |
| **Cables**  | Power (220VAC 50HZ) and Data |  |  |
| **Operating System** | Windows 10 Pro |  |  |
| **Not Acceptable Models**  | Hp Products that use **Sure Sense** Technology |  |  |
| **Warranty** | 1-year standard warranty  |  |  |

1. **Printer**

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| **IOM’S SPECIFICATIONS / MINIMUM REQUIREMENTS** | **BIDDER'S SPECIFICATIONS** | **Indicate****COMPLY or NOT Comply** |
| **Brand**  | Global\International “Worldwide Recognition”  |  |  |
| **Color**  | Black  |  |  |
| **Printing Technology**  | Monochrome Laser / Duplex  |  |  |
| **Speed**  | 35 ppm  |  |  |
| **Resolution**  | 1200/600/300dpi adjustable  |  |  |
| **Duty Cycle**  | 15,000 A4 pages/month  |  |  |
| **Media Type**  | A3 - A4 plain paper, Envelopes  |  |  |
| **Input Trays**  | (100 sheets A3) and (300 sheets A4)  |  |  |
| **Interfaces**  | 1\*USB2.0 / 1\*Ethernet 10/100/1000 base-T / 1\*Wireless 802.11  |  |  |
| **Cables**  | All Accessories, Power, and Data Cables for Interfaces specified as “Minimum Requirements” included  |  |  |
| **Consumables**  | Toner, Drum, and Waste Container Delivered for:45000 A3-A4 pages Black by ISO/IEC 19752  |  |  |
| **Compatibility**  | Windows10 Pro  |  |  |
| **Special Features**  | Auto-Document Feeder up to 35 sheets  |  |  |
| **Other Functions**  | Scanner (600dpi) and Copier  |  |  |
| **Power** | 220VAC 50HZ |  |  |
| **Warranty** | 1-year standard warranty  |  |  |

1. **HDMI Cable**

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| **IOM’S SPECIFICATIONS / MINIMUM REQUIREMENTS** | **BIDDER'S SPECIFICATIONS** | **Indicate****COMPLY or NOT Comply** |
| **Length**  | 10meters  |  |  |
| **Version**  | HDMI 2.1  |  |  |
| **Bandwidth supported**  | 18Gbps  |  |  |
| **Features**  | Variable Refresh Rate (VRR) eARC (enhanced Audio Return Channel). Ethernet supported  |  |  |
| **Connector Type**  | Type A  |  |  |
| **Construction**  | Connectors: Gold plated Shield: robust shield to highly minimize EMI and RFI  |  |  |
| **Warranty** | 1-year standard warranty  |  |  |

1. **Laser Pointer**

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| **IOM’S SPECIFICATIONS / MINIMUM REQUIREMENTS** | **BIDDER'S SPECIFICATIONS** | **Indicate****COMPLY or NOT Comply** |
| **Highlight** | Advanced pointer + timer  |  |  |
| **Pointer Type** | Laser or digital with mouse function  |  |  |
| **Presenting Environment**  | Projector/TV/LED screens  |  |  |
| **Connectivity** | USB + Bluetooth  |  |  |
| **Compatibility** | Windows, MAC  |  |  |
| **Power**  | Fitted with rechargeable battery  |  |  |
| **Range** | 20m  |  |  |
| **Presenting Software** | PowerPoint, Keynote |  |  |
| **Warranty** | 1-year standard warranty  |  |  |

1. **Television**

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| **IOM’S SPECIFICATIONS / MINIMUM REQUIREMENTS** | **BIDDER'S SPECIFICATIONS** | **Indicate****COMPLY or NOT Comply** |
| **Type Display** | OLED |  |  |
| **Resolution** | 4K (2160p) |  |  |
| **Screen Size**  | 55 inches  |  |  |
| **Tuner**  | Analog DVB-T, satellite (DVB-S2) and Digital Tuner (DVB-C) |  |  |
| **HDR**  | Yes  |  |  |
| **HDR Format**  | Dolby Vision, HDR 10, Hybrid Log-Gamma (HLG)  |  |  |
| **Power**  | 220 Volts, 50 Hz  |  |  |
| **Refresh Rate**  | 120 Hz  |  |  |
| **Smart System**  | Yes  |  |  |
| **Connectivity** | 3\*HDMI 1\*VGA 1\*Analog video input (RCA) 1\*Audio input/output 2\*USB |  |  |
| **Warranty** | 1-year standard warranty  |  |  |

1. **Multi-Function Network Printer**

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| **IOM’S SPECIFICATIONS / MINIMUM REQUIREMENTS** | **BIDDER'S SPECIFICATIONS** | **Indicate****COMPLY or NOT Comply** |
| **BRAND**  | Global/International “Word wide Recognition”  |  |  |
| **Device Type**  | (1)- Copier (2)- Printer (3)- Color scanner (4)- Fax  |  |  |
| **Imaging System**  | Laser Dry Electrostatic  |  |  |
| **Control Panel**  | 7" touch screen allows to: - perform daily operations copy, Scan, Fax - display machine faults and errors - control and manage the machine settings and parameters  |  |  |
| **Paper Source Input**  | 2\*Trays (cassettes)  |  |  |
| Manual bypass tray  |
| **Auto document feeder**  | Required  |  |  |
| **Paper Capacity**  | 250 papers/Tray  |  |  |
| 100 papers /bypass tray |
| **Paperweight**  | Tray: 60 to 105 g/m²  |  |  |
| Bypass Tray: 64 to 216 g/m² |
| **Paper format**  | A5 →A3  |  |  |
| **Interfaces**  | (1) - Ethernet 100 Base-TX (2) - USB 2.0 (3) - Wi-Fi (IEEE 802.11)  |  |  |
| **System storage**  | 256 GB  |  |  |
| **Supported Protocols**  | TCP/IP(IPV4/IPV6)- HTTP- FTP - SMB  |  |  |
| **Power requirement**  | 220VAC, 50Hz  |  |  |
| **Warranty** | 1-year standard warranty  |  |  |

**(1) Copier Specifications:**

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| **IOM’S SPECIFICATIONS / MINIMUM REQUIREMENTS** | **BIDDER'S SPECIFICATIONS** | **Indicate****COMPLY or NOT Comply** |
| **Copy Speed and Duty Cycle**  | 20 Pages per minute (ppm)  |  |  |
| **Double side printing**  | Required  |  |  |
| **Zoom Range**  | 25%→400%  |  |  |

**(2) Printer Specifications:**

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| **IOM’S SPECIFICATIONS / MINIMUM REQUIREMENTS** | **BIDDER'S SPECIFICATIONS** | **Indicate****COMPLY or NOT Comply** |
| **Printing modes**  | (1)- Local printing (Direct) (2)- Network printing (3)- USB printing (3)- wireless printing  |  |  |
| **Printing resolution**  | 600x600 dpi  |  |  |
| **Operating system**  | Windows 7, 8, 8.1, 10, windows server, Unix, LINUX, and MAC OS  |  |  |
| **Printing Data language**  | PCL6, PostScript 3; PDF and all the Standard format  |  |  |

**(3) Scanner Specifications:**

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| **IOM’S SPECIFICATIONS / MINIMUM REQUIREMENTS** | **BIDDER'S SPECIFICATIONS** | **Indicate****COMPLY or NOT Comply** |
| **(1)- Scanning Resolution**  | Adjustable Up to 600x600dpi  |  |  |
| **(2)- Scan speed @ full resolution**  | image per minutes  |  |  |
| **(3)- Scan format**  | PDF, TIFF, JPEG  |  |  |
| **(4)- Scan the destination**  | Scan to email Network folders (SMB) USB Memory  |  |  |

**(4) Fax Specifications:**

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| **IOM’S SPECIFICATIONS / MINIMUM REQUIREMENTS** | **BIDDER'S SPECIFICATIONS** | **Indicate****COMPLY or NOT Comply** |
| **FAX transmission**  | Analog, I-FAX, IP-FAX  |  |  |
| **FAX resolution**  | 600x600 dpi  |  |  |
| **FAX modem**  | 33.6 kbps  |  |  |
| **FAX functions**  | Polling; time-shift, pc-fax, receipt to confidential box |  |  |

1. **Flash Drive**

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| **IOM’S SPECIFICATIONS / MINIMUM REQUIREMENTS** | **BIDDER'S SPECIFICATIONS** | **Indicate****COMPLY or NOT Comply** |
| **Capacity**  | 128 GB  |  |  |
| **Compatibility**  | PC, Mac, Windows, LINUX  |  |  |
| **Type Connector**  | Double connector type A & type C USB 3.2 Gen 2  |  |  |
| **Warranty** | 1-year standard warranty  |  |  |

1. **Portable Hard Disk**

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| **IOM’S SPECIFICATIONS / MINIMUM REQUIREMENTS** | **BIDDER'S SPECIFICATIONS** | **Indicate****COMPLY or NOT Comply** |
| **Capacity**  | 8 TB  |  |  |
| **Technology**  | SSD  |  |  |
| **OS compatibility** | Windows, MAC and LINUX  |  |  |
| **Interface**  | USB3.2 type A & type C  |  |  |
| **Design and finishing**  | Slim design with aluminum external cover  |  |  |
| **Features**  | Encryption software (AES 256) comply with IEEE1667  |  |  |
| **Reliability**  | MTBF≥1.5million hours  |  |  |
| **Warranty** | 1-year standard warranty  |  |  |

1. **Paper and CD Shredder**

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| **IOM’S SPECIFICATIONS / MINIMUM REQUIREMENTS** | **BIDDER'S SPECIFICATIONS** | **Indicate****COMPLY or NOT Comply** |
| **Bin Capacity**  | 15L  |  |  |
| **Advertised Sheet Capacity** | 8 |  |  |
| **Measured Sheet Capacity**  | 10 |  |  |
| **Maximum Sheet per minute**  | 110 |  |  |
| **Shred Type**  | Micro-cut  |  |  |
| **Power**  | 220 Volts, 50 Hz  |  |  |
| **Warranty** | 1-year standard warranty  |  |  |

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## Supplier’s authorized signature over printed name