

Section VII. Technical Specifications

Procuremet of Supply and Delivery of I.T. Equipment and Software Applications

Lot 1

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| 1 | | | | | |
| Latest Licensed Software Applications | Specifications | Qty | Delivery Time | Payment mode | Statement of Compliance |
| MINIMUM TECHNICAL SPECIFICATION: | | | Delivered and completely installed within forty-five (45) calendar days from receipt of the Notice to Proceed. | | |
| | | | | | |
| | At least Latest (Word processing, spreadsheet & slides presentation) for Business. | 65 | | One time payment | |
| Software applications | | | | | |
| | Without annual fees subscriptions. With CD key. | | | | |
| | Compatible with Windows and Mac Operating System | | | | |
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| 2 | | | | | |
| Latest Licensed Software Applications | Specifications | Qty | Delivery Time | Payment mode | Statement of Compliance |
| MINIMUM TECHNICAL SPECIFICATION: | | | | | |
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| | At least Latest (Word processing, spreadsheet, slides presentation, and access) Professional | 1 | Delivered and completely installed within forty-five (45) calendar days from receipt of the Notice to Proceed. | One time payment | |
| Software applications | | | | | |
| | Without annual fees subscriptions. With CD key. | | | | |
| | Compatible with Windows and Mac Operating System | | | | |
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| 3 | | | | | |
| Uninterruptible Power Supply (UPS) | Specifications | Qty | Delivery Time | Payment mode | Statement of Compliance |
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| MINIMUM TECHNICAL SPECIFICATION: | | | Delivered and completely installed within forty-five (45) calendar days from receipt of the Notice to Proceed. | | |
| Output Power Capacity | At least 325 Watts / 625 VA | 35 | | One time payment | |
| Max Configurable Power | At least 325 Watts / 0 VA | | | | |
| Nominal Output Voltage | At least 230V | | | | |
| Nominal Input Voltage | At least 230V | | | | |
| Input Frequency | At least 45 - 65 Hz | | | | |
| Input voltage range for main operations | At least 151 - 299V | | | | |
| Battery Type | Maintenance-free sealed Lead-Acid battery | | | | |
| Typical recharge time | At least 6 hours | | | | |
| Warranty | At least 1 Years Warranty | | | | |
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| 4 | | | | | |
| Projector | Specifications | Qty | Delivery Time | Payment mode | Statement of Compliance |
| MINIMUM TECHNICAL SPECIFICATION: | | | Delivered and completely installed within forty-five (45) calendar days from receipt of the Notice to Proceed. | | |
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| Projection System | At least 3LCD Technology, RGB liquid crystal | 1 | | One time payment | |
| LCD Panel | Yes | | | | |
| Image | | | | | |
| Colour Light Output | At least 5,500 Lumen- 3,800 Lumen | | | | |
| White Light Output | At least 5,500 Lumen - 3,800 Lumen | | | | |
| Resolution | At least XGA, 1024 x 768, 4:3 | | | | |
| Aspect Ratio | At least 0.16875 | | | | |
| Contrast Ratio | At least 15,000 : 1 | | | | |
| Light source | At least Lamp | | | | |
| Lamp | At least 300 W, 5,000 h durability, 10,000 h durability (economy mode) | | | | |
| Colour Processing | At least 10 Bits | | | | |
| Colour Reproduction | At least upto 1.07 billion colours | | | | |
| Optical | | | | | |
| Projection Ratio | At least 1.38 - 2.24:1 | | | | |
| Zoom | At least Manual, Factor: 1 - 1.6 | | | | |
| Image Size | At least 30 inches - 300 inches | | | | |
| Projection Distance Wide | At least 0.8 m (30 inch screen) | | | | |
| Projection Distance Tele | At least 8.5 m (300 inch screen) | | | | |
| Projection Lens F Number | At least 1.51 - 1.99 | | | | |
| Focal Distance | At least 18.2 mm - 29.2 mm | | | | |

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| Connectivity | | | | | |
| Interfaces | At least USB 2.0 Type A, USB 2.0 Type B, RS-232C, Wired Network, Gigabit ethernet interface, Wireless Network (optional), VGA in (2x), VGA out, HDMI in (2x), Composite in, RGB in (2x), RGB out, MHL, Stereo mini jack audio out, Stereo mini jack audio in. | | | | |
| Warranty | At least 1 year | | | | |
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| 5 | | | | | |
| Flatbed Scanner | Specifications | Qty | Delivery Time | Payment mode | Statement of Compliance |
| MINIMUM TECHNICAL SPECIFICATION: | | | Delivered and completely installed | | |
| Scanner | Specifications | 3 | within forty-five (45) calendar days from receipt of the Notice to Proceed. | One time payment | |
| Scanner Type | At least Flatbed color document scanner | | | | |
| Optical Resolution: | At least Flatbed: 1200 dpi, ADF: 600 dpi | | | | |
| Hardware Resolution: | At least Flatbed: 1200 x 1200 dpi, ADF: 600 dpi | | | | |
| Color Bit Depth: | At least RGB x 30-bit internal / external | | | | |
| Grayscale Bit Depth: | At least 8-bit per pixel internal / external | | | | |
| Optical Sensor: | At least Contact Image Sensor (CIS) | | | | |
| Maximum Scan Area: | At least Flatbed: 8.5" x 11.7", ADF: 8.5" x 14" | | | | |
| Scanning Speed: | At least 25 ppm simplex, 10 ipm duplex (300 dpi, Black-and-White, Grayscale, Color) | | | | |
| Automatic Document Feeder: | | | | | |
| Capacity | At least 50 sheets | | | | |
| Standard Connectivity: | At least USB 3.0 | | | | |
| Waranty | At least 1 year | | | | |
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| 6 | | | | | |
| Reporting software. (Individual user or Small Business) | Specifications | Qty | Delivery Time | Payment mode | Statement of Compliance |
| MINIMUM TECHNICAL SPECIFICATION: | | | Delivered and completely installed | | |
| Number of employees: | At least 1 employee creating reports | 1 | within forty-five (45) calendar days from receipt of the Notice to Proceed. | One time payment | |
| | At least 5 recipients receiving 5 reports distributed manually (both numbers are unlimited) | | | | |
| | Solutions allow the user to implement an Intelligent Enterprise by combining analysis, business intelligence, decision support and pixel-perfect reporting. | | | | |
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| 7 | | | | | |
| Statistics Software | Specifications | Qty | Delivery Time | Payment mode | Statement of Compliance |
| Latest Statistics Software Base | Single-user, desktop application for Windows and Macs. Includes 12 months of technical support. | 1 | Delivered and completely installed | | |
| | Read/write text, Excel, SAS, and more; no size limits | | within forty-five (45) calendar days from receipt of the Notice to | One time payment | |
| | Descriptive statistics, data prep, and graphing | | | | |
| | Programmability/extensibility; supports R/Python | | | | |
| | Bivariate statistics procedures, factor and cluster analysis | | | | |
| | Linear and ordinal regression | | | | |
| | Basic reporting with export to Microsoft/PDF | | | | |
| 8 | | | | | |
| Statistics Software | Specifications | Qty | Delivery Time | Payment mode | Statement of Compliance |
| Latest Statistics Software Premium | Single-user, desktop application for Windows and Macs. Includes 12 months of technical support. | 1 | | | |
| | Read/write text, Excel, SAS, and more; no size limits | | Delivered and completely installed | One time payment | |
| | Descriptive statistics, data prep, and graphing | | | | |
| | Programmability/extensibility; supports R/Python | | | | |
| | Bivariate statistics procedures, factor and cluster analysis | | within forty-five (45) calendar days from receipt of the Notice to Proceed. | | |
| | Linear, non-linear, ordinal, logistic and 2SLS regression | | | | |
| | Drag and drop interactive tables with export to Microsoft/PDF | | | | |
| | Generalized linear modeling and survival analysis | | | | |
| | Bayesian Statistics, advanced data preparation, decision trees and forecasting | | | | |
| | Single/multiple missing value imputation | | | | |
| | Exact tests, complex sampling, bootstrapping, SEM | | | | |
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| 9 | | | | | |
| Print, Scan, Copy, Fax | Specifications | Qty | Delivery Time | Payment mode | Statement of Compliance |
| MINIMUM TECHNICAL | | | Delivered and | | |

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|-------------------------------------|--|------------|----------------------|---------------------|--------------------------------|
| SPECIFICATION: | | | completely | | |
| Printer | | 2 | installed | One time payment | |
| Printing Speed | At least 15 pages/min Monochrome, 8 pages/min Colour | | within forty-five | | |
| Duplex Printing Speed | At Least 6.5 A4 pages/min Monochrome, 4.5 A4 pages/min Colour | | (45) calendar | | |
| Colours | At least Black, Cyan, Yellow, Magenta | | days from | | |
| Scan | | | receipt of the | | |
| Single-sided scan speed (A4 black) | At least 300 DPI 1.5 msec/line | | Notice to | | |
| Single-sided scan speed (A4 Colour) | At least 300 DPI 7 msec/line | | Proceed. | | |
| Scanning Resolution | At least 1,200 DPI x 2,400 DPI (Horizontal x Vertical) | | | | |
| Output formats | At least BMP, JPEG, TIFF, PDF | | | | |
| Fax | | | | | |
| Type of fax | Black and white and colour fax capability | | | | |
| Paper /Media Handling | | | | | |
| Number of paper trays | At least 1 | | | | |
| Paper Formats | At least A4, A5, A6, B5, C6 (Envelope), DL (Envelope), No. 10 (Envelope), Letter, 9 x 13 cm, 10 x 15 cm, 16:9, Legal | | | | |
| Duplex | Yes | | | | |
| Automatic Document Feeder | At least 30 pages | | | | |
| Output Tray Capacity | At least 30 Sheets | | | | |
| multifunction | At least 250 Sheets Standard, 250 Sheets Maximum, 20 Photo Sheets | | | | |
| Compatible Paper Weight | At least 64 g/m² - 250 g/m² | | | | |
| Media Handling | Auto Sheet Feeder, Automatic duplex, Borderless print | | | | |
| Interfaces | USB, Ethernet, WiFi | | | | |
| Warranty | At least 1 year | | | | |
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| 10 | | | | | |
| Multi-function photocopiers | Specifications | Qty | Delivery Time | Payment mode | Statement of Compliance |
| MINIMUM TECHNICAL SPECIFICATION: | | | Delivered and | | |
| | | | completely | | |
| General type | | 10 | installed | One time payment | |
| Engine speed | At least B&W - Letter: 25 ppm, Legal: 12 ppm, Ledger: 12 ppm | | within forty-five | | |
| Warm-up time | At least Approx. 21 seconds | | (45) calendar | | |
| Input capacity | At least 2 x 500 Sheet Trays, Multi-purpose tray 100 sheets, | | days from | | |
| Document feeder/Processor | At least 50 sheets | | receipt of the | | |
| Drum and developing unit copy life | At least 300,000 copies per piece | | Notice to | | |
| Resolution: | At least 600 x 600 dpi; Fine 1200 dpi | | Proceed. | | |
| Memory (RAM): | At least Standard 1 GB, Upgradable to 3 GB | | | | |
| Hard Disk Drive: | At least Optional (32 GB SSD); Optional (128 GB SSD) | | | | |
| Duplex unit | At least Standard Stackless Duplex Supports Statement to Ledger | | | | |
| Paper Size: | At least Trays/MPT: 5.5" x 8.5" - 11" x 17" (Statement to Ledger) | | | | |
| Copy | | | | | |
| Copy Resolution | At least 600 x 600 dpi | | | | |
| Image Mode: | At least Text, Photo, Text/Photo, Diagram/Map | | | | |
| Image adjustments | At least Text + Photo, Photo, Text, Chart/Map, Printed document | | | | |
| Continuous copy | At least 1 - 999 | | | | |
| Scan | | | | | |
| Scan Speeds (B&W/Color @ 300 dpi): | At least Simplex: 50 ipm; Duplex: 16 ipm | | | | |
| Scan resolution | At least 600 dpi, 400 dpi, 300 dpi, 200 dpi, 200 x 100 dpi, 200 x 400 dpi | | | | |
| Max. scan size | At least A4 / Legal | | | | |
| Original recognition | At least Text, photo, text + photo, light text, optimised for OCR | | | | |
| File formats | At least TIFF, PDF, PDF (high compression), XPS, OpenXPS, JPEG | | | | |
| | At least 10/100/1000BaseTX, IEEE | | | | |
| Connectivity/Supported Protocols: | At least 802.11b/g/n Wireless LAN, Hi-Speed USB 2.0 | | | | |
| Warranty | At least 1 year | | | | |
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| Lot 2 | | | | | |
| 1 | | | | | |
| IP Wireless Radio | Specifications | Qty | Delivery Time | Payment mode | Statement of Compliance |
| MINIMUM TECHNICAL SPECIFICATION: | | | Delivered and | | |
| | | | completely | | |
| SPECTRUM | | 4 | installed | One time payment | |
| Frequency Range | At least Wide-band operation 5.1 to 5.9 GHz | | within forty-five | | |
| Channel Width | At least Dual independent channels, each channel configurable as 10, 20, 40 & 80 MHz | | (45) calendar | | |
| INTERFACE | | | days from | | |
| Ethernet Interface | At least 1 Gigabit Port: Data + PoE power input 1 SFP port (single-mode fiber, multi-mode fiber, and copper Gigabit Ethernet options | | receipt of the | | |
| Protocols Used | At least IPv4, IPv6, UDP, TCP/IP, ICMP, Telnet, SNMP, HTTP, FTP | | Notice to | | |
| | | | Proceed. | | |

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| MTU | At least up to MAX PACKET SIZE: 1700 Bytes | | | | |
| Network Management | In-Band management and Out-Band Management | | | | |
| VLAN | Yes | | | | |
| PERFORMANCE | | | | | |
| Maximum Deployment Range | At least Up to 122 miles (200 km) | | | | |
| Latency | At least 3 ms one direction | | | | |
| LINK | | | | | |
| Antenna | Antenna beam | | | | |
| Antenna Gain | At least Integrated Flat panel: 23 dBi | | | | |
| PHYSICAL | | | | | |
| Antenna | At least Connectorized: Single or Dual-polarity antennas using 2xN-type connectors | | | | |
| Surge Suppression | At least EN61000-4-5: 1.2us/50us, 500 V voltage waveform Recommended external surge suppressor. | | | | |
| SECURITY | | | | | |
| Encryption | At least FIPS 197 compliant 128-bit AES Encryption | | | | |
| WARRANTY | At least 1 Year Warranty | | | | |
| 2 | | | | | |
| Supporting materials | Specifications | Qty | Delivery Time | Payment mode | Statement of Compliance |
| MINIMUM TECHNICAL SPECIFICATION: | | | | | |
| Adjustable/Collapsible Extender Pole | At least 15 feet | 1 | Delivered and completely installed within forty-five (45) calendar days from receipt of the Notice to Proceed. | One time payment | |
| Pole size | At least Ø 38.1 - 101.6 mm | | | | |
| Suggested Collapse Length | at least 1.52 meters | | | | |
| Light Weight | Yes | | | | |
| Pole Support Accessories | Yes | | | | |
| Warranty | At least 1 year | | | | |
| | | | | | |
| 3 | | | | | |
| Equipment/Carrying/Transport Case | Specifications | Qty | Delivery Time | Payment mode | Statement of Compliance |
| MINIMUM TECHNICAL SPECIFICATION: | | | | | |
| Watertight/Crush Proof/Dust Proof | Yes | 3 | Delivered and completely installed within forty-five (45) calendar days from receipt of the | One time payment | |
| With Wheel | Yes | | | | |
| Exterior Dimensions (L X W X D) | At least 39.95" x 23.45" x 28.65" (101.5 x 59.6 x 72.8 cm) | | | | |
| Bottom Depth | At least 23" | | | | |
| Body | Hard Plastic (Polypropylene) or Stainless steel hardware | | | | |
| Internal Foam Support | Yes | | | | |
| Warranty | At least 1 year | | | | |