Computer Hardware and Software Minimum Specifications:

The Contractor shall utilize the minimum technical specifications below in conjunction with the project specific special provisions and submit the vendor supplied information required by the special provisions. Actual types and number of required devices are listed in the project specific special provisions.

1. Multifunction Laser Printer/Copier/Scanner/Fax – Minimum Specification:

The following list of Multifunction Laser Printer/Copier/Scanner/Fax includes the only units that will be **approved** for use in the Field Offices. If you currently have a construction project that is scheduled to start please ensure that the contractor only supplies one of these printers. No other printers will be approved or supported for new construction projects.

* **Approved Models:** B&W or Color
  + - * SAVIN MP series
      * SAVIN IM series
    - All multifunction units must meet the following minimum specifications
      * Print speed – 20 ppm
      * Resolution – 1,200 x 1,200 dpi
      * Paper size
        + Small and Medium Offices – Up to 216 mm x 355 mm (8.5 in x 14 in)
        + Large and X-Large Offices – Up to 279 mm x 432 mm (11 in x 17in)
      * Print Drivers – Must support HP PCL6 and HP PCL5e
      * All printers/multifunction devices **shall be Network ready** (MIN 10/100 RJ45)
      * Network/OS – Windows 10/Windows Server 2016
      * Network Protocols - TCP/IP (IPv4, IPv6)
      * All printers/multifunction devices shall have a built in **display window**.
      * Wireless/ePrinting are **not** allowed **nor** supported.
      * Recycled copiers or printers shall not be more than ten years old

1. Digital Camera – Minimum Specification:
   * Photo Quality/Zoom – 16 mega pixel, with 12x optical zoom
   * Features – Date/Time stamp
   * Connectivity – USB cable or memory card reader
   * Software – Must be compatible with Windows 10 Professional 64-bit
   * Power – Rechargeable battery and charger

The Contractor shall provide a compatible memory card with a minimum capacity of 32GB, for each camera.

1. Communications (Cell Phones):
   * Smart Phone:

# Smart phones shall be capable of making/receiving digital voice calls, call waiting, caller ID, voice mail access, and generating/receiving both text and multimedia messages.

* + - Hardware – Minimum Specification (Per Phone)
      * Operating System – Limited to either Android or Apple (latest version)
      * Wireless Technology – Phone shall be capable of connecting to a 4G LTE network
      * Calling/Data Packages – The Contractor shall provide a cell phone plan that provides unlimited talk time, unlimited texting, and unlimited data on the Verizon or AT&T 4G LTE networks (The cellular plan for the phones can be combined into one plan).
      * Camera – Minimum 8 Megapixels
      * Video Recording Resolution – 1920x1080 @ 30fps or greater
      * Total Memory – 32 GB minimum
      * Power Adapters – One (1) AC wall adapter and One (1) 12 Volt DC Auto adapter per phone
      * Protective Case – One (1) case that drop protection up to 5 feet and is capable of preventing water and dust intrusion.
  + Flip Phone:
    - The Contractor shall provide rugged cell phones with unlimited nation-wide talk and text calling plans that operate on the Verizon or AT&T network and provide adequate data allotments for multimedia messages. The phones shall be capable of sending and receiving text and multimedia messages and shall include voice mail. Additional features beyond those described shall be at no additional cost to the Department. Accessories for each phone shall include holster, AC wall charger, DC auto charger, and extended life battery.

1. Conference Room Presentation Television (X-Large Offices):

The Contractor shall provide a large screen television meeting the minimum specifications:

* Display Type – LED
* Display Resolution – 4K
* Screen Size – 70-inch or greater
* Connectivity – 3xHDMI (minimum) and Screen Mirroring Capable

Any hardware, cabling, display adapters, and documentation necessary to ensure proper equipment operability shall be included. The Contractor shall be responsible for the installation of the television in the field office and any wiring facilities required for operability. The installation method will consist of either wall mounting or media center furnishings meeting the weight capacity requirements of the television. The installation location and method will be as directed by the Engineer.