General Conditions:
1. All equipment must have the ability to operate as one complete system within an office environment. The selected vendor must have the knowledge to integrate the system into the existing network.

2. Vendor must also have the complete knowledge of the hardware and the capability to connect and install the 3D Printer System and its components (i.e., 3D Printing System, and parts cleaning station).

3. All equipment must be delivered with appropriate operation manuals and installed by chosen vendor’s authorized/certified field engineer.

I. PolyJet 3D Printer System Equipment
This system must fit the general description of a 3D Printer device. Specifically, the system must utilize a print head to selectively deposit and cure cross sections of a digital model by accurately printing each cross section on the surface of a build plate/tray using a photosensitive polymer. The system must have a precision Z-stage (elevator) system to reposition the build platform in very small increments as low as 18 microns or 0.0007 of an inch, such that one thin layer can be reliably printed and cured/solidified directly onto the previously cured/solidified layer beneath it. The system must be highly automated; user friendly and capable of unattended operation once the system is started. The system must also be capable of the simultaneous printing of multiple, unique model materials in a single build process; be capable of combining two materials to yield a variety of composite mixes that yield unique material properties; be capable of producing an unlimited number of “digital composites” of unique materials; be capable of producing 500,000 different colors.
A. The PolyJet 3D Printing System is to include:
   • 1 year warranty
   • Installation/Training
   • All software required to convert CAD and STL files into tangible models, including:
     ➢ automatic support generation software
     ➢ support for digital materials
     ➢ ability to handle multi-shell STL files
     ➢ create files with multiple material types
     ➢ receive input files of CAD, VRML, STL, ODF, 3MF and SLC format

B. FEATURES
   • Ultra-thin layer PolyJet™ technology
   • High resolution ensures smooth surfaces and fine details
   • Build Size: 5.51x 7.87 x 7.48 inch (140 X 200 X 190 mm)
   • Full material support: VeroCyanV, VeroMagentaV, VeroYellowV,
     VeroPureWhite, VeroBlackPlus, VeroClear, DraftGrey
   • Spray away Sup710 Support Material
   • High Quality Speed (HQS) print mode
   • Office environment

C. SPECIFICATIONS
   • Layer thickness (Z-axis):
     ➢ Horizontal build layers down to 18.75-micron
   • Net build size (X×Y×Z):
     ➢ 5.51 x 7.87 x 7.48 inch (140 X 200 X 190 mm)
   • Build Resolution:
     ➢ X-axis: 300 dpi
     ➢ Y-axis: 300 dpi
   • Printing Modes:
     ➢ High Quality Speed (HQS) 5 base resins, 18.75 –micron resolution
   • Typical Accuracy:
     ➢ Deviation from STL dimensions, for 1 Sigma (67%) of models printed with rigid materials, based on size: under 100mm +- 150 microns about 100mm +-0.15% of part length
     ➢ Deviation from STL dimensions, for 2 Sigma (95%) of models printed with rigid materials, based on size: under 100mm +-180 microns; above 100mm +-0.2% of part length
C. SPECIFICATIONS (Continued)

- **Modeling Materials Supported**
  - VeroClear rigid transparent
  - VeroVivid family of rigid opaque
  - VeroPureWhite
  - VeroBlackPlus
  - DraftGrey

- **Support Type**
  - SUP710 Support
  - Non-toxic gel-like photopolymer support easily removed by WaterJet

- **Material Cartridges**
  - 6 sealed 1.1 kg cartridges
  - 5 different model materials loaded
  - Front loading for quick replacement

- **Power Requirements**
  - 110 – 240 VAC 50/60 Hz, 10A, 1 phase

- **Machine Dimensions (W×D×H)**
  - 25.63 X 26.02 X 59.48 inches (651 X 661 X 1511 mm)

- **Machine weight**
  - 503 lbs

- **Software**
  - GrabCAD Print:
    - Easy selection of materials including Digital Materials
    - Part separation into sub-assemblies
    - Automatic real-time support structure generation
    - Suggested build orientation, speed and auto-placement
    - Slice on the fly
    - Network version

- **Input Format**
  - CAD, STL, 3MF, OBJDF and SLC File

- **Operational Environment**
  - Temperature 64°F – 77°F (18 – 25 °C)
  - Relative Humidity 30–70%