**Baseline Hardware Specifications Version 2.0**

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| **IMPORTANT –** These tables serve as a broad guidelines on the core baseline specifications that normally define the various types of equipment to be procured. Contracting Authorities are at liberty to specify further specifications as they deem necessary and shall define the actual requirements to best suit their procurement needs including adding any additional requirements to the hardware specifications.  Please also refer to the Guidance Notes (MITA-PRO-DPS 020\_20 Guidance Notes-v4.0) for any additional technical requirements or specifications that might need to be included. |

|  |  |  |
| --- | --- | --- |
| Requirement in these cells: |  | to be defined. |

**1. Standalone Printer (Colour / Monochrome)**

| # | Description | Requirement |
| --- | --- | --- |
| 1 | Printer Type | To define  [Dot Matrix, Ink Jet, Laser, LED, thermal transfer, plotter] |
| 2 | Print Speed | To define  [Colour: >= 20 ppm]  [Monochrome: >=45 ppm] |
| 3 | Colour/Monochrome | To define |
| 4 | Duplex printing | Yes |
| 5 | Fast Ethernet and USB 2.0 | Yes |
| 6 | Resolution | To define  [600 X 600 DPI]  [1200 X 1200 DPI] |
| 7 | Memory | >=128Mb |
| 8 | Paper input capacity | To Define  [2X500 sheet paper tray; 1X100 sheet bypass tray] |
| 9 | Paper Size | To define [A4, A3] |
| 10 | Printer Language | PCL 6 |
| 11 | Monthly Duty Cycling | To define  [Minimum 70,000 pages] |
| 12 | Standard Ports | USB 2.0, Gigabit Ethernet (10/100/1000) |

**2. Standard Multifunction Printer**

| # | Description | Requirement |
| --- | --- | --- |
| 1 | Printer Type\* | To define (for example Inkjet or Laser) |
| 2 | Print Speed | >= 25 ppm |
| 3 | Colour/Monochrome | Colour |
| 4 | Duplex printing | Yes |
| 5 | Gigabit Ethernet and USB 2.0 | Yes |
| 6 | Resolution | To define  [600 X 600 DPI]  [1200 X 1200 DPI] |
| 7 | Memory | >=512Mb |
| 8 | Internal Hard Disk Space | >=100Gb |
| 9 | Paper input capacity | To Define  [Minimum 250 sheet paper tray; 50 sheet ADF tray input capacity] |
| 10 | Paper Size | To define [A4, A3] |
| 11 | Printer Language | PCL 6 |
| 12 | Scanning | Flatbed and Automatic Document Feeder (ADF) |
| 13 | Maximum Scan Area | A3 |
| 14 | Automatic Duplex Scanning | Yes |
| 15 | Scan-to-Email using SMTP Server | Yes |
| 16 | Automatic Duplex Photocopying | Yes |
| 17 | Monthly Duty Cycling | To define  [Minimum 70,000 pages] |
| 18 | User Interface | Touch screen display |
| 19 | Standard Ports | USB 2.0, Gigabit Ethernet (10/100/1000) |

**3. Heavy-Duty Multifunction Printer**

| # | Description | Requirement |
| --- | --- | --- |
| 1 | Printer Type\* | To define (for example Inkjet or Laser) |
| 2 | Print Speed | >= 30 ppm |
| 3 | Colour/Monochrome | Colour |
| 4 | Duplex printing | Yes |
| 5 | Gigabit Ethernet and USB 2.0 | Yes |
| 6 | Resolution | To define  [600 X 600 DPI]  [1200 X 1200 DPI] |
| 7 | Memory | >=2Gb |
| 8 | Internal Hard Disk Space | >=100Gb |
| 9 | Paper input capacity | To Define  [Minimum 500 sheet paper tray; 75 sheet ADF tray input capacity] |
| 10 | Paper Size | To define [A4, A3] |
| 11 | Printer Language | PCL 6 |
| 12 | Scanning | Flatbed and Automatic Document Feeder (ADF) |
| 13 | Maximum Scan Area | A3 |
| 14 | Automatic Duplex Scanning | Yes |
| 15 | Scan-to-Email using SMTP Server | Yes |
| 16 | Secure Printing:   * Password protection prior to printing, delay printing until password is re-entered at device * Support for Active Directory user authentication * Encryption of Internal Hard Disk * Ability to wipe data on Internal Hard Disk | Yes |
| 17 | Automatic Duplex Photocopying | Yes |
| 18 | Monthly Duty Cycling | To define  [Minimum 100,000 pages] |
| 19 | User Interface | Touch screen display |
| 20 | Standard Ports | USB 2.0, Gigabit Ethernet (10/100/1000) |

\* It is recommended that in case of leasing of equipment, the specifications do not restrict technologies since the cost of leasing relates to the printing output irrespective of the technology employed.

**4. 3D Printer**

| # | Description | Requirement |
| --- | --- | --- |
| 1 | Technology | To define  [Laser-SLA; LCD-SLA; DLP-SLA; FDM; FFF] |
| 2 | XY Resolution | To define  [>=75μm] |
| 3 | Layer Resolution | To define  [>=10μm] |
| 4 | Printing Area | To define  [150 X 150 X 150 mm] |
| 5 | Nozzle Diameter | To define  [0.4mm (expected lifetime 1,500 hours] |
| 6 | Maximum Print Speed | To define  [3.8 in an hour  (Z 100μm)] |
| 7 | Surface | Good |
| 8 | Print bed type | To define  [Glass, removable] |
| 9 | Calibration | Automatic |
| 10 | Maximum Print Volume (inch) | To define  6.1 X 3.7 X 7.1  (L X W X H) |
| 11 | Material | To define  [Resin or PLA] |
| 12 | XY Resolution Control | To define  [Yes, No] |
| 13 | Safety elements | To define  [Door Locks, print bed sensor] |

**6. Scanner**

| # | Description | Requirement |
| --- | --- | --- |
| 1 | Scanner type | To define  [flatbed, book, production, handheld, sheetfed, photo] |
| 2 | Photoelectric Device | To define |
| 3 | Effective pixels | To define |
| 4 | Document Size | To define  [A4; A3] |
| 5 | Scanning Resolution | To define |
| 6 | Scanning Speed | To define  [Colour:  Greyscale: ] |
| 7 | Output Resolution | To define |
| 8 | Interface | High Speed USB 2.0  High Speed Port |
| 9 | Light Source | To define  [RGB LED  White LED, IR LED] |
| 10 | Software Included | To define  [Scan Utility, PDF Utility, etc] |