**Specification for Sample IT Products**

**Category C (Microcomputer Equipment)**

##### (To be completed and returned by email or uploading through e-Form)

1. Specifications of Add-on Hardware and Software Items

For each of those items **marked with an asterisk** in the first row of the relevant tables below in this Appendix, the applicant who applies to become GITP provider of the sub-category of Category C to which such item belongs must propose at least one model (together with all requested information) for such item in the form known as “[Details of Sample IT Products](https://www.digitalpolicy.gov.hk/en/our_work/digital_infrastructure/industry_development/suppliers/gitp/#product_form)” as well as in relevant table below to show its compliance with the [reference technical requirements](https://www.digitalpolicy.gov.hk/en/our_work/digital_infrastructure/industry_development/suppliers/gitp/#ref_tech_req) applicable to such item which are repeated in the relevant table below.

Whilst it is not mandatory to do so, for each of those items which are not marked with an asterisk in the tables below, the applicant applying to become a GITP provider of the relevant sub-category to which such item belongs may wish to propose one model (together with the requested information) for such item in the form known as “[Details of Sample IT Products](https://www.digitalpolicy.gov.hk/en/our_work/digital_infrastructure/industry_development/suppliers/gitp/#product_form)” as well as in the relevant table below to show its compliance with the [reference technical requirements](https://www.digitalpolicy.gov.hk/en/our_work/digital_infrastructure/industry_development/suppliers/gitp/#ref_tech_req) applicable to such item which are repeated in the relevant table below.

Applicants shall provide technical information to substantiate compliance of the proposed products with the aforesaid requirements.  Technical information in product literature published by the original manufacturers/developers and/or other supporting technical information shall be provided to prove compliance.

Sample illustration on the products to be proposed is provided in Enclosure of this Appendix for illustration purposes only.

* 1. Sub-category C1 – Desktop Computer
		1. Desktop Computer

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| --- |
| **Desktop Computer [Item No. 51000] \*** |
| Model / Feature No. (1) |  |
| Product Description (1) |  |
| **Specifications** |
| Specifications Reference (2) |  |
| Processor | * At least dual-core 64-bit processor(s)
 |  |
| System Memory | * At least 8GB DDR4 or better
 |  |
| Internal Storage | * At least 240GB SSD (raw capacity)
 |  |
| Interface Port | * At least one (1) USB 3.1 port or better
 |  |
| Others | * Shall provide keyboard, mouse and power cord
 |  |
| Operating System | * Preloaded with the latest version of Desktop Operating System which can be OEM version
 |  |
| Green Requirement | * Shall comply with mandatory requirement of Green Product Code D01
 |  |

* + 1. Desktop Computer Upgrade Option

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| --- |
| **Desktop Computer Upgrade Option [Item No. 51010]** |
| Model / Feature No. (1) |  |
| Product Description (1) |  |
| **Specifications** |
| Specifications Reference (2) |  |
| Feature | * Provide at least one (1) desktop computer upgrade option as listed below:
	+ Memory module
	+ Hard disk drive
 |  |

* + 1. Monitor

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| --- |
| **Monitor [Item No. 51011]** |
| Model / Feature No. (1) |  |
| Product Description (1) |  |
| **Specifications** |
| Specifications Reference (2) |  |
| Input Connector | * Support at least one (1) interface port as listed below:
	+ VGA
	+ DVI
	+ HDMI
	+ DisplayPort
 |  |
| Display Size (Diagonal) | * At least 17 inches
 |  |
| Resolution | * At least 1024 x 768 native resolution
 |  |
| Contrast Ratio (Typical) | * 1000:1 or above
 |  |
| Others | * Shall provide all necessary cables (e.g. power cord and charger)
 |  |
| Green Requirement | * Shall comply with mandatory requirement of Green Product Code D02
 |  |

* + 1. QR Code & Barcode Scanner

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| --- |
| **QR Code & Barcode Scanner [Item No. 51012]** |
| Model / Feature No. (1) |  |
| Product Description (1) |  |
| **Specifications** |
| Specifications Reference (2) |  |
| Light Source | * Laser or LED or infra-red
 |  |
| Scan Rate  | * At least 30 scans or decodes per second
 |  |
| Decoding Capability | * Able to scan at least two (2) standard linear barcodes as listed below:
	+ Code 39
	+ Code 128
	+ UPC
	+ EAN
 |  |
| Connectivity | * Support at least one (1) interface port as listed below:
	+ USB 3.0
	+ RS-232
 |  |
| Others | * Shall provide all necessary cables (e.g. power cord)
 |  |
| Green Requirement | * Shall comply with mandatory requirement of Green Product Code D08
 |  |

* + 1. Switch/Hub

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| --- |
| **Switch/Hub [Item No. 51013]** |
| Model / Feature No. (1) |  |
| Product Description (1) |  |
| **Specifications** |
| Specifications Reference (2) |  |
| Feature | * Provide switch/hub device with at least one (1) function as listed below:
	+ Shall be able to control and manage at least two (2) computers using a single keyboard, mouse and monitor
	+ Support USB 3.0 or better and expand a single USB port into at least four (4) USB ports
 |  |
| Others | * Shall provide all necessary cables (e.g. power cord)
 |  |

* + 1. Storage Media and Card Reader

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| --- |
| **Storage Media and Card Reader [Item No. 51014]** |
| Model / Feature No. (1) |  |
| Product Description (1) |  |
| **Specifications** |
| Specifications Reference (2) |  |
| Feature | * Provide storage media and card reader with at least one (1) function as listed below:
	+ Storage media with at least 32GB raw capacity
	+ Card reader with support to read at least two (2) types of storage media card as listed below:
		- * SD Card
			* Compact Flash
			* xD Card
			* Memory Stick, etc.
 |  |
| Others | * Shall provide all necessary cables (e.g. power cord)
 |  |

* + 1. Computer Peripherals

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| --- |
| **Computer Peripherals [Item No. 51015]** |
| Model / Feature No. (1) |  |
| Product Description (1) |  |
| **Specifications** |
| Specifications Reference (2) |  |
| Feature | * Provide at least one (1) computer peripheral which is used for desktop PC/notebook as listed below:
	+ Keyboard
	+ Mouse
	+ Keyboard and mouse combo
	+ Docking station
	+ Webcam
	+ USB conference microphone
	+ Adapter
	+ Storage destroyer
	+ Power supply
	+ Cable connector
	+ Cables (excluding optical fibre)
 |  |
| Green Requirement | * For keyboard and mouse, shall comply with mandatory requirement of Green Product Code D09
 |  |

* + 1. Image & Document Scanner

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| **Image & Document Scanner [Item No. 51016]** |
| Model / Feature No. (1) |  |
| Product Description (1) |  |
| **Specifications** |
| Specifications Reference (2) |  |
| Scan Speed for A4 Size Paper | * At least 20 ppm in 300dpi x 300dpi
 |  |
| Optical Scan Resolution | * At least 600dpi x 600dpi
 |  |
| Bit Depth | * At least 24-bit colour
 |  |
| Connectivity | * Support at least one (1) interface port as listed below:
	+ USB 3.0 or better
	+ Ethernet 100Base-Tx
	+ Wireless
 |   |
| Others | * Bundled with image scanning software, cradle, power supply and cables
 |  |
| Green Requirement | * Shall comply with mandatory requirement of Green Product Code D08
 |  |

* 1. Sub-category C2 – Notebook Computer
		1. Notebook Computer

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| **Notebook Computer [Item No. 52000] \*** |
| Model / Feature No. (1) |  |
| Product Description (1) |  |
| **Specifications** |
| Specifications Reference (2) |  |
| Processor | * At least dual-core 64-bit processor(s)
 |  |
| System Memory | * At least 4GB DDR4 or better
 |  |
| Display | * At least 12 inches
 |  |
| Display Resolution | * At least 1920 x 1080 pixel
 |  |
| Internal Storage | * At least 120GB SSD (raw capacity)
 |  |
| Wireless Connectivity | * At least WLAN 802.11ac
* At least Bluetooth 5.0 or better
 |  |
| Port & Slot | * At least 1 x USB 3.0 port or better
 |  |
| Others | * Shall provide power cord and charger
 |  |
| Operating System | * Preloaded with one of the prevailing operating systems which can be OEM version
 |  |
| Green Requirement | * Shall comply with mandatory requirement of Green Product Code D04
 |  |

* + 1. Notebook Computer Upgrade Option

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| --- |
| **Notebook Computer Upgrade Option [Item No. 52010]** |
| Model / Feature No. (1) |  |
| Product Description (1) |  |
| **Specifications** |
| Specifications Reference (2) |  |
| Feature | * Provide at least one (1) notebook computer upgrade option as listed below:
	+ Memory module
	+ Hard disk drive
 |  |

* + 1. External Hard Disk

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| --- |
| **External Hard Disk [Item No. 52011]** |
| Model / Feature No. (1) |  |
| Product Description (1) |  |
| **Specifications** |
| Specifications Reference (2) |  |
| Raw Capacity | * At least 256GB
 |  |
| Connectivity | * At least USB 3.0 or better
 |  |
| Others | * With enclosure
* Shall provide all necessary cables (e.g. USB cable, power cord, etc.)
 |  |
| Green Requirement | * Shall comply with mandatory requirement of Green Product Code D11
 |  |

* + 1. External Drive Enclosure

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| **External Drive Enclosure [Item No. 52012]** |
| Model / Feature No. (1) |  |
| Product Description (1) |  |
| **Specifications** |
| Specifications Reference (2) |  |
| Capacity | * Shall be able to house and provide power for at least two (2) hard disks drive
 |  |
| Connectivity | * Support at least one (1) interface as listed below:
	+ USB 3.0 or better
	+ SAS
	+ SCSI
	+ eSATA
 |  |
| Others | * Shall provide all necessary cables (e.g. power cord and charger)
 |  |

* 1. Sub-category C3 – Mobile Computing Device
		1. Mobile Computing Device

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| **Mobile Computing Device [Item No. 53000] \*** |
| Model / Feature No. (1) |  |
| Product Description (1) |  |
| **Specifications** |
| Specifications Reference (2) |  |
| Processor | * At least dual-core 64-bit processor(s)
 |  |
| Display Resolution | * At least 1200 x 720 pixels
 |  |
| Internal Storage | * At least 60GB (raw capacity)
 |  |
| Wireless Connectivity | * At least WLAN 802.11ac
* At least Bluetooth 5.0 or better
 |  |
| Others | * Shall provide power cord and charger
 |  |
| Operating System | * Preloaded with operating system
 |  |
| Green Requirement | * Tablet device shall comply with mandatory requirement of Green Product Code D10;
* Mobile phone shall comply with mandatory requirement of Green Product Code T02
 |  |

* + 1. Mobile Computing Device Accessories

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| --- |
| **Mobile Computing Device Accessories [Item No. 53010]** |
| Model / Feature No. (1) |  |
| Product Description (1) |  |
| **Specifications** |
| Specifications Reference (2) |  |
| Feature | * Provide at least one (1) accessory which is used in the tablet device as listed below:
	+ Active pen
	+ Keyboard
	+ Docking station
 |  |
| Green Requirement | * Keyboard, shall comply with mandatory requirement of Green Product Code D09
 |  |

* 1. Sub-category C4 – Printer
		1. Monochrome Laser / LED Printer

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| --- |
| **Monochrome Laser / LED Printer [Item No. 54000] \*** |
| Model / Feature No. (1) |  |
| Product Description (1) |  |
| **Specifications** |
| Specifications Reference (2) |  |
| Print Technology | * Laser or LED
 |  |
| Print Speed for A4 Size Paper | * At least 20ppm
 |  |
| Resolution | * At least 600dpi x 600dpi
 |  |
| Media Size | * Support at least A4 and letter size printing
 |  |
| Connectivity | * Support at least one (1) interface port as listed below:
	+ USB 3.0 or better
	+ Parallel port
	+ Wireless
	+ Ethernet 100Base-Tx
	+ 1000Base-T
 |  |
| Others | * Shall provide all interface connect cables (e.g. USB cable or parallel cable)
 |  |
| Green Requirement | * Shall comply with mandatory requirement of Green Product Code D05
 |  |

* + 1. Monochrome Printer Accessories

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| --- |
| **Monochrome Printer Accessories [Item No. 54012]** |
| Model / Feature No. (1) |  |
| Product Description (1) |  |
| **Specifications** |
| Specifications Reference (2) |  |
| Feature | * Shall provide at least one (1) monochrome printer accessory which is used for the printer as listed below:
	+ Paper tray
	+ Memory module
	+ Hard disk module
	+ Finisher kit
	+ Add-on kit, etc.
 |  |

* + 1. Colour Laser / LED Printer

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| --- |
| **Colour Laser / LED Printer [Item No. 54001] \*** |
| Model / Feature No. (1) |  |
| Product Description (1) |  |
| **Specifications** |
| Specifications Reference (2) |  |
| Print Technology | * Laser or LED
 |  |
| Print Speed for A4 Size Paper | * At least 20ppm in colour
 |  |
| Resolution | * At least 600dpi x 600dpi
 |  |
| Media Size | * Support at least A4 and letter size printing
 |  |
| Connectivity | * Support at least one (1) interface port as listed below:
	+ USB 3.0 or better
	+ Parallel port
	+ Wireless
	+ Ethernet 100Base-Tx
	+ 1000Base-T
 |  |
| Others | * Shall provide all interface connect cables (e.g. USB cable or parallel cable)
 |  |
| Green Requirement | * Shall comply with mandatory requirement of Green Product Code D05
 |  |

* + 1. Colour Printer Accessories

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| --- |
| **Colour Printer Accessories [Item No. 54013]** |
| Model / Feature No. (1) |  |
| Product Description (1) |  |
| **Specifications** |
| Specifications Reference (2) |  |
| Feature | * Shall provide at least one (1) colour printer accessory which is used for the printer as listed below:
	+ Paper tray
	+ Memory module
	+ Hard disk module
	+ Finisher kit
	+ Add-on kit, etc.
 |  |

* + 1. Multifunction Monochrome Laser / LED Printer

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| --- |
| **Multifunction Monochrome Laser / LED Printer [Item No. 54010]** |
| Model / Feature No. (1) |  |
| Product Description (1) |  |
| **Specifications** |
| Specifications Reference (2) |  |
| Print Technology | * Laser or LED
 |  |
| Print Speed for A4 Size Paper | * At least 20ppm
 |  |
| Resolution | * At least 600dpi x 600dpi
 |  |
| Optical Scan Resolution | * At least 600dpi x 600dpi
 |  |
| Media Size | * Support at least A4 and letter size printing
 |  |
| Function | * Printing, copying and scanning
 |  |
| Connectivity | * Support at least one (1) interface port as listed below:
	+ USB 3.0 or better
	+ Parallel port
	+ Wireless
	+ Ethernet 100Base-Tx
	+ 1000Base-T
 |  |
| Others | * Shall provide all interface connect cables (e.g. USB cable or parallel cable)
 |  |

* + 1. Multifunction Colour Laser / LED Printer

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| --- |
| **Multifunction Colour Laser / LED Printer [Item No. 54011]** |
| Model / Feature No. (1) |  |
| Product Description (1) |  |
| **Specifications** |
| Specifications Reference (2) |  |
| Print Technology | * Laser or LED
 |  |
| Print Speed for A4 Size Paper | * At least 20ppm in colour
 |  |
| Resolution | * At least 600dpi x 600dpi
 |  |
| Optical Scan Resolution | * At least 600dpi x 600dpi
 |  |
| Media Size | * Support at least A4 and letter size printing
 |  |
| Function | * Printing, copying and scanning
 |  |
| Connectivity | * Support at least one (1) interface port as listed below:
	+ USB 3.0 or better
	+ Parallel port
	+ Wireless
	+ Ethernet 100Base-Tx
	+ 1000Base-T
 |  |
| Others | * Shall provide all interface connect cables (e.g. USB cable or parallel cable)
 |  |
| Green Requirement | * Shall comply with mandatory requirement of Green Product Code D07
 |  |

* + 1. Inkjet Printer

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| --- |
| **Inkjet Printer [Item No. 54014]** |
| Model / Feature No. (1) |  |
| Product Description (1) |  |
| **Specifications** |
| Specifications Reference (2) |  |
| Print Technology | * Ink
 |  |
| Print Speed for A4 Size Paper in Draft Mode | * At least 20ppm in colour
 |  |
| Printer Resolution | * At least 600dpi x 600dpi in colour
 |  |
| Colour Technology | * At least four (4) colours (cyan, magenta, yellow and black)
* Separate ink cartridge for each colour
 |  |
| Connectivity | * Support at least one (1) interface port as listed below:
	+ USB 3.0 or better
	+ Ethernet 100Base-Tx
	+ Wireless
 |  |
| Paper Tray Capacity | * Shall be able to fill at least 100 sheets of paper
 |  |
| Others | * Shall provide all necessary cables (e.g. power cord)
 |  |
| Green Requirement | * Shall comply with mandatory requirement of Green Product Code D05
 |  |

* + 1. Barcode Label Printer

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| --- |
| **Barcode Label Printer [Item No. 54015]** |
| Model / Feature No. (1) |  |
| Product Description (1) |  |
| **Specifications** |
| Specifications Reference (2) |  |
| Print Technology | * Thermal / Direct thermal
 |  |
| Print Speed | * At least 50mm per second
 |  |
| Print Width | * At least 50mm
 |  |
| Printer Resolution | * At least 200dpi
 |  |
| Barcode Support | * Able to print at least two (2) linear or 2-dimensional bar code standard as listed below:
	+ UPC
	+ EAN
	+ Code39
	+ Code128 or compatible
 |  |
| Connectivity | * Support at least one (1) interface as listed below:
	+ USB
	+ Parallel port
	+ RS-232
	+ Ethernet
 |  |
| Others | * Shall provide all necessary cables (e.g. power cord)
 |  |
| Green Requirement | * Shall comply with mandatory requirement of Green Product Code D05
 |  |

* + 1. Inkjet / Barcode Label Printer Accessories

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| --- |
| **Inkjet / Barcode Label Printer Accessories [Item No. 54016]** |
| Model / Feature No. (1) |  |
| Product Description (1) |  |
| **Specifications** |
| Specifications Reference (2) |  |
| Add-on Kit | * Additional kit to enrich printing, scanning or fax functions for inkjet/barcode label printers such as:
	+ Security
	+ Speed
	+ Colour
	+ Font type
	+ Paper handling, etc.
 |  |

* 1. Sub-category C5 – PC Software
		1. Desktop Operating System

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| **Desktop Operating System [Item No. 55000] \*** |
| Model / Feature No. (1) |  |
| Product Description (1) |  |
| **Specifications** |
| Specifications Reference (2) |  |
| Features | * Support 64-bit processors
* Support multiple programs running simultaneously
* Support ISO 10646 and HKSCS coded in ISO 10646 or support GB 18030
* Support common networking protocols e.g. TCP/IP
* Support energy saving feature
* Support user logon feature for authentication purpose and support more than one (1) type of user (e.g. users, guest, root/administrator, etc.)
* Compatible with one (1) or more web browser(s)
 |  |

* + 1. Office Automation Software

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| --- |
| **Office Automation Software [Item No. 55001] \*** |
| Model / Feature No. (1) |  |
| Product Description (1) |  |
| **Specifications** |
| Specifications Reference (2) |  |
| Features | * Provide office automation software with at least one (1) function as listed below:
	+ word processing
	+ spreadsheet calculation
	+ creating presentations
	+ creating simple database running on PC
* Support ISO 10646 and HKSCS coded in ISO 10646 or support GB 18030
 |  |

* + 1. Security Software

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| --- |
| **Security Software [Item No. 55010]** |
| Model / Feature No. (1) |  |
| Product Description (1) |  |
| **Specifications** |
| Specifications Reference (2) |  |
| Features | * Provide security software with at least one (1) function as listed below:
	+ Scanning, detection, anti-spam, anti-phishing, automatic cleaning, quarantining the virus including at least one (1) year signature updates for the different types of virus as listed below:
		- * worms
			* Trojan horses
			* spyware
			* bots
	+ able to delete files permanently, wipe free space and wipe internet history including cache, cookies, browsing history, etc.
 |  |

* + 1. Encryption Software

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| --- |
| **Encryption Software [Item No. 55011]** |
| Model / Feature No. (1) |  |
| Product Description (1) |  |
| **Specifications** |
| Specifications Reference (2) |  |
| Features | * Provide encryption software with at least one (1) function as listed below:
	+ encryption and decryption functions to data on storage devices or computer systems
	+ sign and/or encrypt email using recipient’s digital certificate stored in smart card or hardware token
 |  |

* + 1. File Compression Software

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| --- |
| **File Compression Software [Item No. 55012]** |
| Model / Feature No. (1) |  |
| Product Description (1) |  |
| **Specifications** |
| Specifications Reference (2) |  |
| Features | * Compress data files to save storage space
* Support at least two (2) file formats in packing and unpacking of data as listed below:
	+ 7z
	+ Zip
	+ RAR
	+ LHA
* Support the packing of multi-files in a single archive
* Protect files with encryption
 |  |

* + 1. Fonts and Characters Management Utilities

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| --- |
| **Fonts and Characters Management Utilities [Item No. 55013]** |
| Model / Feature No. (1) |  |
| Product Description (1) |  |
| **Specifications** |
| Specifications Reference (2) |  |
| Features | * Support at least one (1) typefaces for printer as listed below:
	+ Medium Black
	+ Medium Kai
	+ Medium Song, etc.
* TrueType font or equivalent
* Support ISO 10646 and HKSCS coded in ISO 10646 or support GB 18030
 |  |

* + 1. Database Software (running on PC)

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| --- |
| **Database Software (running on PC) [Item No. 55014]** |
| Model / Feature No. (1) |  |
| Product Description (1) |  |
| **Specifications** |
| Specifications Reference (2) |  |
| Features | * Provide the database engine supporting the simple database model and SQL running on PC
* Support ISO 10646 and HKSCS coded in ISO 10646 or support GB 18030
* Provide interactive tools supporting data browsing, sorting and record filtering under interactive mode
* Include tools such as graphical querying tool, report writer and form designer
* Provide application development capability with macro language support and built-in program debugger
* Provide database mirroring or replication
 |  |

* + 1. PDF Creation Software

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| --- |
| **PDF Creation Software [Item No. 55015]** |
| Model / Feature No. (1) |  |
| Product Description (1) |  |
| **Specifications** |
| Specifications Reference (2) |  |
| Features | * Create PDF documents from any application that prints
* Provide text recognition with optical character recognition
* Protect PDF documents with encryption
* Allow users to digitally sign PDF documents
* Convert documents to PDF/A file format for long-term archiving
 |  |

* + 1. Project Management Software

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| --- |
| **Project Management Software [Item No. 55016]** |
| Model / Feature No. (1) |  |
| Product Description (1) |  |
| **Specifications** |
| Specifications Reference (2) |  |
| Features | * Provide functions for task scheduling and support reporting and analysis
* Shall be able to schedule tasks in Gantt chart view or PERT chart view
 |  |

* + 1. Graphics and Drawing Software

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| --- |
| **Graphics and Drawing Software [Item No. 55017]** |
| Model / Feature No. (1) |  |
| Product Description (1) |  |
| **Specifications** |
| Specifications Reference (2) |  |
| Features | * Provide functions for drawing and editing of images
* Support at least two (2) of the image formats listed below:
	+ AutoCAD Drawing (DXF, DWG)
	+ Portable Network Graphics (PNG)
	+ Windows Bitmap (BMP)
	+ JPEG File Interchange Format (JPG)
	+ Graphics Interchange Format (GIF)
	+ Portable Data Format (PDF)
 |  |

Notes:

(1) Information given on brand, name, model or feature number and manufacturer shall be able to uniquely identify the proposed product. Accessories (e.g. mounting kit, cable, power cord, additional RAM, etc.) to be delivered along with each proposed Hardware and Software items should be specified clearly in the “Product Description”. If the proposed product is a bundle of several items (items other than accessories), the aforesaid information shall be given with respect to each bundled item and in the same sequence. If there are any discrepancies between the information given in this form and accompanying technical literature, subject to any clarification which may be made by the Government, the accompanying technical literature shall prevail.

(2) The applicant shall state the exact location of the technical information as found in the product literature published by the original manufacturers/developers and/or other supporting technical information in the proposal (Filename/Section/Page).

Sample Illustration - Specifications of Add-on Hardware and Software Items

Sub-category C1 – Desktop Computer [Ref.: Section 1.1 of this Appendix]

Desktop Computer [Ref.: Section 1.1.1 of this appendix]

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| --- |
| **Desktop Computer [Item No. 51000] \*** |
| Model / Feature No. (1) | Q999A |
| Product Description (1) | A-brand A123, 16GB RAM, 512GB SSD |
| **Specifications** |
| Specifications Reference (2) | Vol.1/Pt.3/App F/Sect2.1.1/Page 1 – A-brand PC Model A123 data sheet |
| Processor | * At least dual-core 64-bit processor(s)
 | * A-brand A123 processor
* quad-core
 |
| System Memory | * At least 8GB DDR4 or better
 | * 16GB DDR4
 |
| Internal Storage | * At least 240GB SSD (raw capacity)
 | * 512GB SSD
 |
| Interface Port | * At least one (1) USB 3.1 port or better
 | * Two USB 3.1 ports at front and 1 USB3.1 port at back
 |
| Others | * Shall provide keyboard, mouse and power cord
 | * Provide one (1) set of USB keyboard, mouse and power cord
 |
| Operating System | * Preloaded with the latest version of Desktop Operating System which can be OEM version
 | * Preload with the OEM version of C-brand desktop operating system version 1.0
 |
| Green Requirement | * Shall comply with mandatory requirement of Green Product Code D01
 | * Comply with mandatory requirement of Green Product Code D01
 |

Multifunction Colour Laser / LED Printer [Ref.: Section 1.4.5 of this appendix]

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| **Multifunction Colour Laser / LED Printer [Item No. 54011]** |
| Model / Feature No. (1) | 990AA |
| Product Description (1) | XYZ 1010DN Colour Laser Printer |
| **Specifications** |
| Specifications Reference (2) | Vol.1/Pt.3/App F/Sect4.2.3/Page 1 – XYZ 1010DN Colour Laser Printer data sheet |
| Print Technology | * Laser or LED
 | * Laser
 |
| Print Speed for A4 Size Paper | * At least 20 ppm in colour
 | * 30 ppm in colour
 |
| Resolution | * At least 600dpi x 600dpi
 | * 1200dpi x 600dpi
 |
| Optical Scan Resolution | * At least 600dpi x 600dpi
 | * 600 dpi x 600 dpi
 |
| Media Size | * Support at least A4 and letter size printing
 | * A4 and Letter
 |
| Function | * Printing, copying and scanning
 | * Support printing, copying and scanning
 |
| Connectivity | * Support at least one (1) interface port as listed below:
	+ USB 3.0 or better
	+ Parallel port
	+ Wireless
	+ Ethernet 100Base-Tx
	+ 1000Base-T
 | * USB 3.0
* Ethernet 100Base-Tx
 |
| Others | * Shall provide all interface connect cables (e.g. USB cable or parallel cable)
 | * Provide USB cable
 |
| Green Requirement | * Shall comply with mandatory requirement of Green Product Code D07
 | * Comply with mandatory requirement of Green Product Code D07
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