

Workstation Policy

Reference: GMICT P 0001

Publication: 25 April 2025

Version: 7.0

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Purpose

To guide the procurement of workstations.

Scope

All workstations in the Public Administration.

Definitions

Underlined terms are defined in the Vocabulary (GMICT X 0003).

Procurement

1. Procurement of Workstations is regulated by OPM Circular No. 5/2014 Procurement of Computers and Workstation Support Services.

Minimum workstation specifications used in the last procurement tender issued by the Agent are available in the Appendices.

2. Workstations shall have the following minimum properties:
 - a. A Trusted Platform Module (TPM) Version 2.0 (as a minimum)
 - b. An original, licensed operating system.

Workstations intended for use with Microsoft Windows, and which shall avail of the Agent's Microsoft Licensing Framework Agreement are to be procured with a built-in Windows PRO OEM licence.

3. Workstations shall be identifiable through a unique serial number, be brand new and not reconditioned or refurbished.
4. The procurement of workstations shall abide by the Green Public Procurement Criteria.

Appendix 1: Desktop Computers

Processor Type	Intel Core i3 9 th Generation (minimum) (i3-9xxx) or AMD Ryzen 3 2 nd Generation (minimum) (Ryzen 3 2xxx)
Motherboard	TPM 2.0 module (minimum) If machine supports Secure Boot, this can be disabled. BIOS must contain ACPI SLIC/MSDM Tables with a valid Windows marker.
RAM	8GB RAM (minimum) must be readily accessible and can be upgraded.
Storage	240GB SSD (minimum) must be readily accessible and can be upgraded.
Network Interface	Capable of handling 1000BASE-T
Input / Output Ports	Six Universal Serial Bus, including 2 front mounted USB ports Minimum 2 x USB 3.0 Must support boot from USB
Keyboard	Windows QWERTY (105 keys) enhanced AT-type. Allocation of characters must conform to the 48-key arrangement of the Maltese keyboard as detailed in the standard MSA 100:2002 – Specification for Keyboard allocation of Graphic characters for data processing, found on the Malta Competition and Consumer Affairs Authority website ¹ .
Mouse	Optical Scroll Mouse, including mouse pad
Drivers	Windows 10
Software	Windows Client Pro OEM
Certification	The complete system must be: <ul style="list-style-type: none">• CE marked and• ROHS compliant and• Logo of compatibility with Windows 10

¹ <http://www.mccaa.org.mt/>

Green Public Procurement Criteria

1. Minimum Energy performance for computers

Applicable to stationary and mobile computers. The calculated Typical Energy Consumption (ETEC) for each piece of equipment delivered as part of the contract must be less than or equal to the Maximum ETEC requirement.

Verification: Tenderers must report the Typical Energy Consumption (EETEC) value, based on testing and calculations according to the IEC standard 62623:2012. Products holding a relevant Type I Ecolabel or a label from another labelling scheme fulfilling the specified requirements will be deemed to comply. Alternative test results obtained by accredited ISO17025 test bodies according to the IEC 62623:2012 standard are accepted as proof of compliance.

2. Warranty and service agreements

The tenderer shall provide a minimum two-year warranty effective from delivery of the product. This warranty shall cover repair or replacement and include a service agreement with options for pick-up and return or on-site repairs. The warranty shall guarantee that the products are in conformity with the contract specifications at no additional cost. This shall cover battery defects.

Verification: The tenderer shall provide a written declaration that the products supplied will be warrantied in conformity with the contract specifications and service requirements

3. Reparability and replacement of components and parts

a) Continued availability of spare parts

The tenderer shall guarantee the availability of spare parts, including as a minimum those identified in criterion relating to the Design for reparability, for at least three years from the date of purchase.

Verification: The tenderer shall provide a declaration that compatible spare parts, including rechargeable batteries (if applicable), will be made available to the contracting authority or through a service provider. Equipment holding the EU Ecolabel or another relevant Type I Eco-label fulfilling the specified requirements will be deemed to comply.

b) Design for reparability

The following parts, if applicable, shall be easily accessible and replaceable by the use of universally

available tools (i.e. screwdriver, spatula, plier or tweezers):

Computers

(i) HDD/SSD,

(ii) Memory,

(iii) Rechargeable battery.

Power Cables

Power cables to be supplied with 3-pin plugs without the need for additional adaptors

TFT Monitors

Screen Type	LCD TFT
Visible screen (diagonal)	21" – 24"
Display Resolution	1920 x 1080 (minimum)
Audio	Built-in speakers
Interface	audio and video

Green Public Procurement Criteria

1. Minimum Energy performance for monitors

Applicable to computer displays. The Energy Efficiency Index for each model delivered as part of the contract must be in the range of Energy Classes A-D as set out in Annex I of Commission Delegated Regulation (EU) No 2019/20134.

Verification: For each model delivered, the tenderer must provide the valid Energy Label issued according to the EU's Energy Labelling framework Regulation (2017/1369). Products labelled as Class A, B, C or D will be deemed to comply.

2. Warranty and service agreements

The tenderer shall provide a minimum two-year warranty effective from delivery of the product. This warranty shall cover repair or replacement and include a service agreement with options for pick-up and return or on-site repairs. The warranty shall guarantee that the products are in conformity with the contract specifications at no additional cost. This shall cover battery defects.

Verification: The tenderer shall provide a written declaration that the products supplied will be warranted in conformity with the contract specifications and service requirements

3. Reparability and replacement of components and parts

a) Continued availability of spare parts

The tenderer shall guarantee the availability of spare parts, including as a minimum those identified in criterion relating to the Design for reparability, for at least three years from the date of purchase.

Verification: The tenderer shall provide a declaration that compatible spare parts, including rechargeable batteries (if applicable), will be made available to the contracting authority or through a service provider. Equipment holding the EU Ecolabel or another relevant Type I Eco-label fulfilling the specified requirements will be deemed to comply.

b) Design for reparability

The following parts, if applicable, shall be easily accessible and replaceable by the use of universally available tools (i.e. screwdriver, spatula, plier or tweezers):

Displays

- (i) Screen assembly and LCD backlight
- (ii) Power and control circuit boards

(iii) Stands (excluding those integrated with the enclosure)

The tenderer shall provide clear disassembly and repair instructions (e.g. hard or electronic copy, video) to enable a non-destructive disassembly of products for the purpose of replacing key components or parts for upgrades or repairs. This shall be made available in hard copy or via the manufacturer's webpage.

Verification: A manual shall be provided by the tenderer, which shall include an exploded diagram of the device illustrating the parts that can be accessed and replaced, and the tools required. It shall also be confirmed which parts are covered by service agreements under the warranty. Equipment holding the EU Ecolabel or another relevant Type I Eco-label fulfilling the specified requirements will be deemed to comply.

Certifications and Standards Compliance	TCO 03 ISO 13406-2
Other Features	Tilt Base

Appendix 2: Standard Laptops

Processor Type	Intel Core i5 10th Generation (minimum) Intel® Core™ i5-10XXX (minimum) Or AMD Ryzen 5 - 3rd Generation (minimum) AMD Ryzen™ 5 4XXX (minimum)
Motherboard	TPM 2.0 module (minimum) UEFI Secure Boot supported and enabled. Built-in Windows PRO OEM license.
RAM	8GB RAM (minimum) must be upgradeable.
Boot Drive	240GB SSD (minimum)
Multimedia	Integrated sound capabilities with built-in speakers with volume control and microphone support Integrated Webcam
Screen	1366x768 resolution (minimum) 15.x inches
Network Interface	Built-in Ethernet Adapter handling 1000BASE-T
Wireless	Integrated support for <ul style="list-style-type: none"> • 802.11n • 802.11ac • Bluetooth
Input / Output Ports	Two Universal Serial Bus (at least 1 USB 3.0) <i>Must support boot from USB</i> <ul style="list-style-type: none"> • <i>Must be present on the Notebook</i> <hr/> One video port <i>Must be present on the Notebook</i> <ul style="list-style-type: none"> • <i>Must allow simultaneous display on the Notebook's LCD and external display. Must allow for output/display to VGA, DVI and HDMI devices (acceptable via adapters).</i>
Keyboard	Built-in QWERTY keyboard Allocation of characters must conform to the 48-key arrangement of the Maltese keyboard as detailed in the standard MSA 100:2002 – Specification for Keyboard allocation of Graphic characters for data processing, found on the Malta Competition and Consumer Affairs Authority website ² .

² <http://www.mccaa.org.mt/>

Biometrics	Built-in Windows Hello for Business compatible Fingerprint Scanner And / Or Built-in Windows Hello for Business compatible Facial recognition
Pointing Devices	Built-in pointing device
Battery	5 hours of continuous use. This shall remain consistent throughout the first 12 months of the warranty period and shall not be less than 180 minutes until the end of the warranty period. The measurement / test result shall be conducted using any proprietary / other tools selected by the Supplier for the specific models.
Drivers	Windows 10 and 11
Software	Windows Client Pro OEM
Microsoft Autopilot	Supplier will register device directly into Microsoft Autopilot or provide a CSV file containing serial number and hardware hash for use with Microsoft Autopilot;
Certification	The complete system must be: <ul style="list-style-type: none">• CE marked and• ROHS compliant and• Windows 10 and 11• Energy Star Computer Equipment specifications or EU Ecolabel

**Green Public
Procurement Criteria****1. Minimum Energy performance for computers**

Applicable to stationary and mobile computers. The calculated Typical Energy Consumption (Etec) for each piece of equipment delivered as part of the contract must be less than or equal to the Maximum Etec requirement.

Verification: Tenderers must report the Typical Energy Consumption (Etec) value, based on testing and calculations according to the IEC standard 62623:2012. Products holding a relevant Type I Ecolabel or a label from another labelling scheme fulfilling the specified requirements will be deemed to comply. Alternative test results obtained by accredited ISO17025 test bodies according to the IEC 62623:2012 standard are accepted as proof of compliance.

2. Warranty and service agreements

The tenderer shall provide a minimum two-year warranty effective from delivery of the product. This warranty shall cover repair or replacement and include a service agreement with options for pick-up and return or on-site repairs. The warranty shall guarantee that the products are in conformity with the contract specifications at no additional cost. This shall cover battery defects.

Verification: The tenderer shall provide a written declaration that the products supplied will be warranted in conformity with the contract specifications and service requirements

3. Reparability and replacement of components and parts**a) Continued availability of spare parts**

The tenderer shall guarantee the availability of spare parts, including as a minimum those identified in criterion relating to the Design for reparability, for at least three years from the date of purchase.

Verification: The tenderer shall provide a declaration that compatible spare parts, including rechargeable batteries (if applicable), will be made available to the contracting authority or through a service provider. Equipment holding the EU Ecolabel or another relevant Type I Eco-label fulfilling the specified requirements will be deemed to comply.

b) Design for reparability

The following parts, if applicable, shall be easily accessible and replaceable by the use of universally

available tools (i.e. screwdriver, spatula, plier or tweezers):

Computers

- (i) HDD/SSD,
- (ii) Memory,
- (iii) Rechargeable battery,

Displays

- (i) Screen assembly and LCD backlight
- (ii) Power and control circuit boards
- (iii) Stands (excluding those integrated with the enclosure)

The tenderer shall provide clear disassembly and repair instructions (e.g. hard or electronic copy, video) to enable a non-destructive disassembly of products for the purpose of replacing key components or parts for upgrades or repairs. This shall be made available in hard copy or via the manufacturer's webpage.

Verification: A manual shall be provided by the tenderer, which shall include an exploded diagram of the device illustrating the parts that can be accessed and replaced, and the tools required. It shall also be confirmed which parts are covered by service agreements under the warranty. Equipment holding the EU Ecolabel or another relevant Type I Eco-label fulfilling the specified requirements will be deemed to comply.

4.Ease of replacement for rechargeable batteries

Rechargeable batteries shall not be glued or soldered into portable products. It shall be possible for a professional user or repair service provider to replace the rechargeable battery. Instructions on how the rechargeable battery packs are to be removed shall be provided in the user instructions or via the manufacturer's webpage.

Verification: The tenderer shall illustrate how the battery is installed in the product; the steps required to remove and cover markings. A copy of relevant user instructions shall also be provided. The Contracting Authority reserves the right to request a visual inspection of a random selection of the supplied products. Equipment holding the EU Ecolabel or another relevant Type I Eco-label fulfilling the specified requirements will be deemed to comply.



Weight	Not exceeding 2.5kg
Power Cables	Power cables to be supplied with 3-pin plugs without the need for additional adaptors.
Carrying Case	To be provided

Appendix 3: Energy Efficient High-End Laptops

Processor Type	Intel Core i7 11th Generation (minimum) Intel® Core™ i7-11XXX (minimum) Or AMD Ryzen 7 – 4th Generation (minimum) AMD Ryzen™ 7 5XXX (minimum)
Motherboard	TPM 2.0 module minimum (Hardware Integrated TPM chip) UEFI Secure Boot supported and enabled. Built-in Windows 10 PRO OEM license.
RAM	16GB RAM (minimum)
Boot Drive	480GB SSD (minimum)
Multimedia	Integrated sound capabilities with built-in speakers with volume control and microphone support Integrated Webcam
Screen	1920x1080 resolution (minimum) 15.x inches
Network Interface	Built-in Ethernet Adapter handling 1000BASE-T
Wireless	Integrated support for <ul style="list-style-type: none"> • 802.11n • 802.11ac • Bluetooth
Input/Output Ports	Two Universal Serial Bus (at least 1 USB 3.0) <i>Must support boot from USB</i> <i>Must be present on the Notebook</i> One video port <i>Must be present on the Notebook</i> <i>Must allow simultaneous display on the Notebook's LCD and external display. Must allow for output/display to VGA, DVI and HDMI devices (acceptable via adapters).</i>
Keyboard	Built-in QWERTY keyboard Allocation of characters must conform to the 48-key arrangement of the Maltese keyboard as detailed in the standard MSA 100:2002 – Specification for Keyboard allocation of Graphic characters for data processing, found on the Malta Competition and Consumer Affairs Authority website ³ .

³ <http://www.mccaa.org.mt/>

Biometrics	Built-in Windows Hello for Business compatible Fingerprint Scanner And / Or Built-in Windows Hello for Business compatible Facial recognition
Pointing Devices	Built-in pointing device
Battery	5 hours of continuous use. This shall remain consistent throughout the first 12 months of the warranty period and shall not be less than 180 minutes until the end of the warranty period. The measurement / test result shall be conducted using any proprietary / other tools selected by the Supplier for the specific models.
Drivers	Windows 10 and 11
Software	Windows Client Pro OEM
Certification	The complete system must be: <ul style="list-style-type: none">• CE marked and• ROHS compliant and• Windows 10 and 11• Energy Star Computer Equipment specifications or EU Ecolabel

**Green Public
Procurement
Criteria****1. Minimum Energy performance for computers**

Applicable to stationary and mobile computers. The calculated Typical Energy Consumption (ETEC) for each piece of equipment delivered as part of the contract must be less than or equal to the Maximum ETEC requirement.

Verification: Tenderers must report the Typical Energy Consumption (EETEC) value, based on testing and calculations according to the IEC standard 62623:2012. Products holding a relevant Type I Ecolabel or a label from another labelling scheme fulfilling the specified requirements will be deemed to comply. Alternative test results obtained by accredited ISO17025 test bodies according to the IEC 62623:2012 standard are accepted as proof of compliance.

2. Warranty and service agreements

The tenderer shall provide a minimum two-year warranty effective from delivery of the product. This warranty shall cover repair or replacement and include a service agreement with options for pick-up and return or on-site repairs. The warranty shall guarantee that the products are in conformity with the contract specifications at no additional cost. This shall cover battery defects.

Verification: The tenderer shall provide a written declaration that the products supplied will be warranted in conformity with the contract specifications and service requirements

3. Reparability and replacement of components and parts**a) Continued availability of spare parts**

The tenderer shall guarantee the availability of spare parts, including as a minimum those identified in criterion relating to the Design for reparability, for at least three years from the date of purchase.

Verification: The tenderer shall provide a declaration that compatible spare parts, including rechargeable batteries (if applicable), will be made available to the contracting authority or through a service provider. Equipment holding the EU Ecolabel or another relevant Type I Eco-label fulfilling the specified requirements will be deemed to comply.

b) Design for reparability

The following parts, if applicable, shall be easily accessible and replaceable by the use of universally available tools (i.e. screwdriver, spatula, plier or tweezers):

Computers

- (i) HDD/SSD,
- (ii) Memory,
- (iii) Rechargeable battery,

Displays

- (i) Screen assembly and LCD backlight
- (ii) Power and control circuit boards
- (iii) Stands (excluding those integrated with the enclosure)

The tenderer shall provide clear disassembly and repair instructions (e.g. hard or electronic copy, video) to enable a non-destructive disassembly of products for the purpose of replacing key components or parts for upgrades or repairs. This shall be made available in hard copy or via the manufacturer's webpage.

Verification: A manual shall be provided by the tenderer, which shall include an exploded diagram of the device illustrating the parts that can be accessed and replaced, and the tools required. It shall also be confirmed which parts are covered by service agreements under the warranty. Equipment holding the EU Ecolabel or another relevant Type I Eco-label fulfilling the specified requirements will be deemed to comply.

4.Ease of replacement for rechargeable batteries

Rechargeable batteries shall not be glued or soldered into portable products. It shall be possible for a professional user or repair service provider to replace the rechargeable battery. Instructions on how the rechargeable battery packs are to be removed shall be provided in the user instructions or via the manufacturer's webpage.

Verification: The tenderer shall illustrate how the battery is installed in the product; the steps required to remove and cover markings. A copy of relevant user instructions shall also be provided. The Contracting Authority reserves the right to request a visual inspection of a random selection of the supplied products. Equipment holding the EU Ecolabel or another relevant Type

	I Eco-label fulfilling the specified requirements will be deemed to comply.
Warranty	3 Years Manufacturer's Warranty which can be accessible through the Manufacturer's Portal.
Weight	Not exceeding 2.5 kg
Power Cables	Power cables to be supplied with 3-pin plugs without the need for additional adaptors.
Carrying Case	To be provided

Appendix 4: Ultra-portable laptops

Processor Type	Intel Core i7 10th Generation (minimum) Intel® Core™ i7-10XXX (minimum) Or AMD Ryzen 7 – 3rd Generation (minimum) AMD Ryzen™ 7 4XXX (minimum)
Motherboard	TPM 2.0 module (minimum) UEFI Secure Boot supported and enabled. Built-in Windows PRO OEM license.
RAM	16GB RAM (minimum)
Boot Drive	512GB SSD (minimum)
Multimedia	Integrated sound capabilities with built-in speakers with volume control and microphone support Integrated Webcam
Screen	1366x768 resolution (minimum) 12" (minimum) 14" (maximum)
Wireless	Integrated support for <ul style="list-style-type: none"> • 802.11n • 802.11ac • Bluetooth
Input / Output Ports	Two Universal Serial Bus (at least 1 x USB 3.0) <ul style="list-style-type: none"> • Must support boot from USB • Must be present on the device <hr/> One video port <ul style="list-style-type: none"> • Must allow simultaneous display on the device and external display. Must allow for output/display to VGA, DVI and HDMI devices (acceptable via adapters).
Keyboard	Built-in QWERTY keyboard Allocation of characters must conform to the 48-key arrangement of the Maltese keyboard as detailed in the standard MSA 100:2002 – Specification for Keyboard allocation of Graphic characters for data processing, found on the Malta Competition and Consumer Affairs Authority website ⁴ .

⁴ <http://www.mccaa.org.mt/>

Biometrics	Built-in Windows Hello for Business compatible Fingerprint Scanner And / Or Built-in Windows Hello for Business compatible Facial recognition
Pointing Devices	Built-in pointing device
Battery	5 hours of continuous use. This shall remain consistent throughout the first 12 months of the warranty period and shall not be less than 180 minutes until the end of the warranty period. The measurement / test result shall be conducted using any proprietary / other tools selected by the Supplier for the specific models.
Height	23mm or less
Drivers	Windows 10 and 11
Weight	Not exceeding 1.6kg
Software	Windows Client Pro OEM
Expansion	Connector for Port Replicator / Docking Station with built in keyboard, mouse, network, and video interface capabilities - must be able to power laptop.
Microsoft Autopilot	Supplier will register device directly into Microsoft Autopilot or provide a CSV file containing serial number and hardware hash for use with Microsoft Autopilot;
Certification	The complete system must be: <ul style="list-style-type: none">• CE marked and• ROHS compliant and• Windows 10 and 11• Energy Star Computer Equipment specifications v6.1 or EU Ecolabel

Green Public Procurement Criteria**1. Minimum Energy performance for computers**

Applicable to stationary and mobile computers. The calculated Typical Energy Consumption (Etec) for each piece of equipment delivered as part of the contract must be less than or equal to the Maximum Etec requirement.

Verification: Tenderers must report the Typical Energy Consumption (Etec) value, based on testing and calculations according to the IEC standard 62623:2012. Products holding a relevant Type I Ecolabel or a label from another labelling scheme fulfilling the specified requirements will be deemed to comply. Alternative test results obtained by accredited ISO17025 test bodies according to the IEC 62623:2012 standard are accepted as proof of compliance.

2. Warranty and service agreements

The tenderer shall provide a minimum two-year warranty effective from delivery of the product. This warranty shall cover repair or replacement and include a service agreement with options for pick-up and return or on-site repairs. The warranty shall guarantee that the products are in conformity with the contract specifications at no additional cost. This shall cover battery defects.

Verification: The tenderer shall provide a written declaration that the products supplied will be warranted in conformity with the contract specifications and service requirements

3. Reparability and replacement of components and parts**a) Continued availability of spare parts**

The tenderer shall guarantee the availability of spare parts, including as a minimum those identified in criterion relating to the Design for reparability, for at least three years from the date of purchase.

Verification: The tenderer shall provide a declaration that compatible spare parts, including rechargeable batteries (if applicable), will be made available to the contracting authority or through a service provider. Equipment holding the EU Ecolabel or another relevant Type I Eco-label fulfilling the specified requirements will be deemed to comply.

b) Design for reparability

The following parts, if applicable, shall be easily accessible and replaceable by the use of universally

available tools (i.e. screwdriver, spatula, plier or tweezers):

Computers

- (i) HDD/SSD,
- (ii) Memory,
- (iii) Rechargeable battery,

Displays

- (i) Screen assembly and LCD backlight
- (ii) Power and control circuit boards
- (iii) Stands (excluding those integrated with the enclosure)

The tenderer shall provide clear disassembly and repair instructions (e.g. hard or electronic copy, video) to enable a non-destructive disassembly of products for the purpose of replacing key components or parts for upgrades or repairs. This shall be made available in hard copy or via the manufacturer's webpage.

Verification: A manual shall be provided by the tenderer, which shall include an exploded diagram of the device illustrating the parts that can be accessed and replaced, and the tools required. It shall also be confirmed which parts are covered by service agreements under the warranty. Equipment holding the EU Ecolabel or another relevant Type I Eco-label fulfilling the specified requirements will be deemed to comply.

4.Ease of replacement for rechargeable batteries

Rechargeable batteries shall not be glued or soldered into portable products. It shall be possible for a professional user or repair service provider to replace the rechargeable battery. Instructions on how the rechargeable battery packs are to be removed shall be provided in the user instructions or via the manufacturer's webpage.

Verification: The tenderer shall illustrate how the battery is installed in the product; the steps required to remove and cover markings. A copy of relevant user instructions shall also be provided. The Contracting Authority reserves the right to request a visual inspection of a random selection of the supplied products. Equipment holding the EU Ecolabel or another relevant Type I Eco-label fulfilling the specified requirements will be deemed to comply.



Power Cables	Power cables to be supplied with 3-pin plugs without the need for additional adaptors
Carrying Case	To be provided

Appendix 5: Premium High-End Laptops

Processor Type	Intel Core i7 9th Generation (minimum) Intel® Core™ i7-9XXX (minimum) Or AMD Ryzen 7 - 2nd Generation (minimum) AMD Ryzen™ 7 3XXX (minimum)
Motherboard	TPM 2.0 module (minimum) Built-in Windows 10 PRO OEM license
RAM	16GB RAM (minimum)
Boot Drive	480GB SSD (minimum)
Multimedia	Integrated sound capabilities with built-in speakers with volume control and microphone support Integrated Webcam
Screen	1920x1080 resolution (minimum) 14" (minimum) Touch Screen
Network Interface	Ethernet Adapter handling 1000BASE-T (can be provided via and external adapter)
Wireless	Integrated support for <ul style="list-style-type: none"> • 802.11n • 802.11ac • Bluetooth
Input / Output Ports	At least one Universal Serial Bus (1 USB 3.0) <ul style="list-style-type: none"> • Must support boot from USB • Must be present on the Notebook <hr/> One video port or provided external adapter <ul style="list-style-type: none"> • Must allow simultaneous display on the Notebook's LCD and external display. Must allow for output/display to DVI and HDMI devices (acceptable via adapters).
Keyboard	QWERTY keyboard Allocation of characters must conform to the 48-key arrangement of the Maltese keyboard as detailed in the standard MSA 100:2002 – Specification for Keyboard allocation of Graphic characters for data processing, found on the Malta Competition and Consumer Affairs Authority website ⁵ .

⁵ <http://www.mccaa.org.mt/>

Biometric	Built-in Windows Hello for Business compatible Fingerprint Scanner And / Or Built-in Windows Hello for Business compatible Facial recognition
Pointing Devices	Built-in pointing device
Battery	7 hours of continuous use. This shall remain consistent throughout the first 12 months of the warranty period and shall not be less than 180 minutes until the end of the warranty period. The measurement / test result shall be conducted using any proprietary / other tools selected by the Supplier for the specific models.
Drivers	Windows 10
Software	Windows Client Pro OEM
Certification	The complete system must be: <ul style="list-style-type: none">• CE marked and• ROHS compliant and• Logo of compatibility with Windows 10• Energy Star Computer Equipment specifications or EU Ecolabel

**Green Public Procurement
Criteria****1. Minimum Energy performance for computers**

Applicable to stationary and mobile computers. The calculated Typical Energy Consumption (Etec) for each piece of equipment delivered as part of the contract must be less than or equal to the Maximum Etec requirement.

Verification: Tenderers must report the Typical Energy Consumption (Etec) value, based on testing and calculations according to the IEC standard 62623:2012. Products holding a relevant Type I Ecolabel or a label from another labelling scheme fulfilling the specified requirements will be deemed to comply. Alternative test results obtained by accredited ISO17025 test bodies according to the IEC 62623:2012 standard are accepted as proof of compliance.

2. Warranty and service agreements

The tenderer shall provide a minimum two-year warranty effective from delivery of the product. This warranty shall cover repair or replacement and include a service agreement with options for pick-up and return or on-site repairs. The warranty shall guarantee that the products are in conformity with the contract specifications at no additional cost. This shall cover battery defects.

Verification: The tenderer shall provide a written declaration that the products supplied will be warranted in conformity with the contract specifications and service requirements

3. Reparability and replacement of components and parts**a) Continued availability of spare parts**

The tenderer shall guarantee the availability of spare parts, including as a minimum those identified in criterion relating to the Design for reparability, for at least three years from the date of purchase.

Verification: The tenderer shall provide a declaration that compatible spare parts, including rechargeable batteries (if applicable), will be made available to the contracting authority or through a service provider. Equipment holding the EU Ecolabel or another relevant Type I Eco-label fulfilling the specified requirements will be deemed to comply.

b) Design for reparability

The following parts, if applicable, shall be easily accessible and replaceable by the use of universally

available tools (i.e. screwdriver, spatula, plier or tweezers):

Computers

- (i) HDD/SSD,
- (ii) Memory,
- (iii) Rechargeable battery,

Displays

- (i) Screen assembly and LCD backlight
- (ii) Power and control circuit boards
- (iii) Stands (excluding those integrated with the enclosure)

The tenderer shall provide clear disassembly and repair instructions (e.g. hard or electronic copy, video) to enable a non-destructive disassembly of products for the purpose of replacing key components or parts for upgrades or repairs. This shall be made available in hard copy or via the manufacturer's webpage.

Verification: A manual shall be provided by the tenderer, which shall include an exploded diagram of the device illustrating the parts that can be accessed and replaced, and the tools required. It shall also be confirmed which parts are covered by service agreements under the warranty. Equipment holding the EU Ecolabel or another relevant Type I Eco-label fulfilling the specified requirements will be deemed to comply.

4.Ease of replacement for rechargeable batteries

Rechargeable batteries shall not be glued or soldered into portable products. It shall be possible for a professional user or repair service provider to replace the rechargeable battery. Instructions on how the rechargeable battery packs are to be removed shall be provided in the user instructions or via the manufacturer's webpage.

Verification: The tenderer shall illustrate how the battery is installed in the product; the steps required to remove and cover markings. A copy of relevant user instructions shall also be provided. The Contracting Authority reserves the right to request a visual inspection of a random selection of the supplied products. Equipment holding the EU Ecolabel or another relevant Type I Eco-label fulfilling the specified requirements will be deemed to comply.

Weight	Not exceeding 2.0 kg
Power Cables	Power cables to be supplied with 3-pin plugs without the need for additional adaptors.
Carrying Case	To be provided

Appendix 6: Premium 2-in-1 Laptops

Processor Type	Intel Core i7 9th Generation (minimum) Intel® Core™ i7-9XXX (minimum) Or AMD Ryzen 7 - 2nd Generation (minimum) AMD Ryzen™ 7 3XXX (minimum)
Motherboard	TPM 2.0 module (minimum) Built-in Windows 10 PRO OEM license
RAM	16GB RAM (minimum)
Boot Drive	480GB SSD (minimum)
Multimedia	Integrated sound capabilities with built-in speakers with volume control and microphone support Integrated Webcam
Screen	1920x1080 resolution (minimum) Minimum 12" Touch Screen
Format	2 in 1 detachable
Network Interface	Ethernet Adapter handling 1000BASE-T (can be provided via and external adapter)
Wireless	Integrated support for <ul style="list-style-type: none"> • 802.11n • 802.11ac • Bluetooth
Input / Output Ports	At least one Universal Serial Bus (1 USB 3.0) <ul style="list-style-type: none"> • Must support boot from USB • Must be present on the Notebook <hr/> One video port or provided external adapter <ul style="list-style-type: none"> • Must allow simultaneous display on the Notebook's LCD and external display. Must allow for output/display to DVI and HDMI devices (acceptable via adapters).

Keyboard	QWERTY keyboard Allocation of characters must conform to the 48-key arrangement of the Maltese keyboard as detailed in the standard MSA 100:2002 – Specification for Keyboard allocation of Graphic characters for data processing, found on the Malta Competition and Consumer Affairs Authority website ⁶ .
Biometric	Built-in Windows Hello for Business compatible Fingerprint Scanner And / Or Built-in Windows Hello for Business compatible Facial recognition
Pointing Devices	Built-in pointing device
Battery	7 hours of continuous use. This shall remain consistent throughout the first 12 months of the warranty period and shall not be less than 180 minutes until the end of the warranty period. The measurement / test result shall be conducted using any proprietary / other tools selected by the Supplier for the specific models.
Drivers	Windows 10
Software	Windows Client Pro OEM
Certification	The complete system must be: <ul style="list-style-type: none">• CE marked and• ROHS compliant and• Logo of compatibility with Windows 10• Energy Star Computer Equipment specifications or EU Ecolabel

⁶ <http://www.mccaa.org.mt/>

**Green Public Procurement
Criteria****1. Minimum Energy performance for computers**

Applicable to stationary and mobile computers. The calculated Typical Energy Consumption (Etec) for each piece of equipment delivered as part of the contract must be less than or equal to the Maximum Etec requirement.

Verification: Tenderers must report the Typical Energy Consumption (Etec) value, based on testing and calculations according to the IEC standard 62623:2012. Products holding a relevant Type I Ecolabel or a label from another labelling scheme fulfilling the specified requirements will be deemed to comply. Alternative test results obtained by accredited ISO17025 test bodies according to the IEC 62623:2012 standard are accepted as proof of compliance.

2. Warranty and service agreements

The tenderer shall provide a minimum two-year warranty effective from delivery of the product. This warranty shall cover repair or replacement and include a service agreement with options for pick-up and return or on-site repairs. The warranty shall guarantee that the products are in conformity with the contract specifications at no additional cost. This shall cover battery defects.

Verification: The tenderer shall provide a written declaration that the products supplied will be warranted in conformity with the contract specifications and service requirements

3. Reparability and replacement of components and parts**a) Continued availability of spare parts**

The tenderer shall guarantee the availability of spare parts, including as a minimum those identified in criterion relating to the Design for reparability, for at least three years from the date of purchase.

Verification: The tenderer shall provide a declaration that compatible spare parts, including rechargeable batteries (if applicable), will be made available to the contracting authority or through a service provider. Equipment holding the EU Ecolabel or another relevant Type I Eco-label fulfilling the specified requirements will be deemed to comply.

b) Design for reparability

The following parts, if applicable, shall be easily accessible and replaceable by the use of universally

available tools (i.e. screwdriver, spatula, plier or tweezers):

Computers

- (i) HDD/SSD,
- (ii) Memory,
- (iii) Rechargeable battery,

Displays

- (i) Screen assembly and LCD backlight
- (ii) Power and control circuit boards
- (iii) Stands (excluding those integrated with the enclosure)

The tenderer shall provide clear disassembly and repair instructions (e.g. hard or electronic copy, video) to enable a non-destructive disassembly of products for the purpose of replacing key components or parts for upgrades or repairs. This shall be made available in hard copy or via the manufacturer’s webpage.

Verification: A manual shall be provided by the tenderer, which shall include an exploded diagram of the device illustrating the parts that can be accessed and replaced, and the tools required. It shall also be confirmed which parts are covered by service agreements under the warranty. Equipment holding the EU Ecolabel or another relevant Type I Eco-label fulfilling the specified requirements will be deemed to comply.

4.Ease of replacement for rechargeable batteries

Rechargeable batteries shall not be glued or soldered into portable products. It shall be possible for a professional user or repair service provider to replace the rechargeable battery. Instructions on how the rechargeable battery packs are to be removed shall be provided in the user instructions or via the manufacturer’s webpage.

Verification: The tenderer shall illustrate how the battery is installed in the product; the steps required to remove and cover markings. A copy of relevant user instructions shall also be provided. The Contracting Authority reserves the right to request a visual inspection of a random selection of the supplied products. Equipment holding the EU Ecolabel or another relevant Type I Eco-label fulfilling the specified requirements will be deemed to comply.

Weight	Not exceeding 2.0 kg
Power Cables	Power cables to be supplied with 3-pin plugs without the need for additional adaptors.
Carrying Case	To be provided

Deviations from GMICT Policy

Instances where it may not be technically possible or cost-effective to comply with a particular GMICT Policy requirement shall be assessed and reported as risks.

Breaches of GMICT Policy shall be brought to the attention of the respective CIO office in order to determine appropriate corrective action and potential control improvements involving relevant stakeholders, as appropriate.

Issuing Authority

This document has been issued by the **Malta Information Technology Agency**.

Contact Information

Government ICT Policies may be found at <http://ictpolicies.gov.mt>.

Any suggestions, queries, or requests for clarification regarding Government ICT Policies may be forwarded to ictpolicies@gov.mt.