# Specification of IT Goods

**Shivaraj Municipality**

**List of Equipment**

1. Desktop Set (Type 1 – Compact)
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4. Desktop Set (Type 4 – i5 13th Gen, 256 GB)
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13. Colour Ink Tank Printer (3-in-1, Wi-Fi)
14. Monitor (19″ / 22″ / 24″ / 27″)
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16. SATA SSD (128 / 256 / 512 GB)
17. Biometric Attendance Device (Face / Fingerprint / Card)
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19. Smart Interactive Flat Panel – 75″
20. Smart Interactive Flat Panel – 86″
21. Smart Interactive Flat Panel – 65″
22. Mobile Stand for Interactive Panel
23. Smart Television (43″ / 55″ / 65″)
24. A3 Monochrome Laser Multifunction Printer

## 1. Desktop Set (Type 1 – Compact)

| Category | Specification | Remark |
|---|---|---|
| Brand | [to be proposed] | |
| Model No. | [to be proposed] | |
| **System** | | |
| Processor | Minimum Intel Core i5 6th Gen (i5-6500T class, 2.5 GHz base) or higher | |
| RAM | Minimum 8 GB DDR4 | |
| Storage | Minimum 256 GB NVMe SSD | |
| Form Factor | Compact / mini desktop | |
| Graphics | Integrated graphics | |
| Ports | Minimum 4 × USB (at least 2 × USB 3.0), 1 × display output (HDMI/DP), 1 × RJ-45 | |
| Networking | Gigabit Ethernet; Wi-Fi | |
| Operating System | Genuine Windows operating system pre-installed with license | |
| **Monitor & Peripherals** | | |
| Monitor | Minimum 24″ Full HD (1920 × 1080) LED | |
| Keyboard & Mouse | USB keyboard and optical mouse | |
| Warranty | Minimum 1 year comprehensive warranty (parts and labor) | |
| Service Center | Bidder must have an authorized service center in Nepal | |
| Accessories | Power cables, display cable, drivers | |

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## 2. Desktop Set (Type 2 – i5 12th Gen, 256 GB)

| Category | Specification | Remark |
|---|---|---|
| Brand | [to be proposed] | |
| Model No. | [to be proposed] | |
| **System** | | |
| Processor | Minimum Intel Core i5 (12th Gen) or higher | |
| RAM | Minimum 16 GB DDR4, expandable to 32 GB or higher (minimum 2 DIMM slots) | |
| Storage | Minimum 256 GB NVMe SSD (additional 1 TB HDD optional) | |
| Graphics | Integrated graphics | |
| Ports | Minimum 4 × USB (at least 2 × USB 3.2), 1 × HDMI, 1 × DisplayPort or VGA, 1 × RJ-45, 1 × audio combo jack | |
| Networking | Gigabit Ethernet; Wi-Fi and Bluetooth | |
| Operating System | Genuine Windows 11 Pro (64-bit), pre-installed with license | |
| **Monitor & Peripherals** | | |
| Monitor | Minimum 23.8″/24″ Full HD (1920 × 1080) LED, HDMI/DP input, same brand as CPU | |
| Keyboard & Mouse | USB keyboard and optical mouse, same brand as CPU | |
| Alternative Configuration | Bidder shall also quote 8 GB RAM / 256 GB SSD configuration separately | Quote separately |
| Warranty | Minimum 1 year comprehensive warranty (parts and labor) | |
| Service Center | Bidder must have an authorized service center in Nepal | |
| Accessories | Power cables, display cable, recovery media/drivers | |

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### 3. Desktop Set (Type 3 – i5 12th Gen, 512 GB)

| Category | Specification | Remark |
|---|---|---|
| Brand | [to be proposed] | |
| Model No. | [to be proposed] | |
| **System** | | |
| Processor | Minimum Intel Core i5 (12th Gen) or higher | |
| RAM | Minimum 16 GB DDR4, expandable to 32 GB or higher (minimum 2 DIMM slots) | |
| Storage | Minimum 512 GB NVMe SSD (1 TB SSD option to be quoted) | |
| Graphics | Integrated graphics | |
| Ports | Minimum 4 × USB (at least 2 × USB 3.2), 1 × HDMI, 1 × DisplayPort or VGA, 1 × RJ-45, 1 × audio combo jack | |
| Networking | Gigabit Ethernet; Wi-Fi and Bluetooth | |
| Operating System | Genuine Windows 11 Pro (64-bit), pre-installed with license | |
| **Monitor & Peripherals** | | |
| Monitor | Minimum 23.8″/24″ Full HD (1920 × 1080) LED, HDMI/DP input, same brand as CPU | |
| Keyboard & Mouse | USB keyboard and optical mouse, same brand as CPU | |
| Alternative Configuration | Bidder shall also quote 8 GB RAM / 512 GB SSD configuration separately | Quote separately |
| Warranty | Minimum 1 year comprehensive warranty (parts and labor) | |
| Service Center | Bidder must have an authorized service center in Nepal | |
| Accessories | Power cables, display cable, recovery media/drivers | |

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### 4. Desktop Set (Type 4 – i5 13th Gen, 256 GB)

| Category | Specification | Remark |
|---|---|---|
| Brand | [to be proposed] | |
| Model No. | [to be proposed] | |
| **System** | | |
| Processor | Minimum Intel Core i5 (13th Gen) or higher | |
| RAM | Minimum 16 GB DDR4/DDR5, expandable to 32 GB or higher (minimum 2 DIMM slots) | |
| Storage | Minimum 256 GB NVMe SSD (1 TB SSD option to be quoted) | |
| Graphics | Integrated graphics | |
| Ports | Minimum 4 × USB (at least 2 × USB 3.2), 1 × HDMI, 1 × DisplayPort or VGA, 1 × RJ-45, 1 × audio combo jack | |
| Networking | Gigabit Ethernet; Wi-Fi and Bluetooth | |
| Operating System | Genuine Windows 11 Pro (64-bit), pre-installed with license | |
| **Monitor & Peripherals** | | |
| Monitor | Minimum 23.8″/24″ Full HD (1920 × 1080) LED, HDMI/DP input, same brand as CPU | |
| Keyboard & Mouse | USB keyboard and optical mouse, same brand as CPU | |
| Alternative Configuration | Bidder shall also quote 8 GB RAM / 256 GB SSD configuration separately | Quote separately |
| Warranty | Minimum 1 year comprehensive warranty (parts and labor) | |
| Service Center | Bidder must have an authorized service center in Nepal | |
| Accessories | Power cables, display cable, recovery media/drivers | |

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### 5. Desktop Set (Type 5 – i5 13th Gen, 512 GB)

| Category | Specification | Remark |
|---|---|---|
| Brand | [to be proposed] | |
| Model No. | [to be proposed] | |
| **System** | | |
| Processor | Minimum Intel Core i5 (13th Gen) or higher | |
| RAM | Minimum 16 GB DDR4/DDR5, expandable to 32 GB or higher (minimum 2 DIMM slots) | |
| Storage | Minimum 512 GB NVMe SSD (1 TB SSD option to be quoted) | |
| Graphics | Integrated graphics | |
| Ports | Minimum 4 × USB (at least 2 × USB 3.2), 1 × HDMI, 1 × DisplayPort or VGA, 1 × RJ-45, 1 × audio combo jack | |
| Networking | Gigabit Ethernet; Wi-Fi and Bluetooth | |
| Operating System | Genuine Windows 11 Pro (64-bit), pre-installed with license | |
| **Monitor & Peripherals** | | |
| Monitor | Minimum 23.8″/24″ Full HD (1920 × 1080) LED, HDMI/DP input, same brand as CPU | |
| Keyboard & Mouse | USB keyboard and optical mouse, same brand as CPU | |
| Alternative Configuration | Bidder shall also quote 8 GB RAM / 512 GB SSD configuration separately | Quote separately |
| Warranty | Minimum 1 year comprehensive warranty (parts and labor) | |
| Service Center | Bidder must have an authorized service center in Nepal | |
| Accessories | Power cables, display cable, recovery media/drivers | |

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### 6. Laptop (Type 1 – 14″, i5 12th Gen)

| Category | Specification | Remark |
|---|---|---|
| Brand | [to be proposed] | |
| Model No. | [to be proposed] | |
| Processor | Minimum Intel Core i5 (12th Gen) or higher | |
| RAM | Minimum 16 GB DDR4 | |
| Storage | Minimum 512 GB NVMe SSD | |
| Display | 14″ Full HD (1920 × 1080), anti-glare | |
| Graphics | Integrated Intel Iris Xe graphics or higher | |
| Operating System | Genuine Windows 11 Pro/Home (64-bit), pre-installed with license | |
| Wireless | Wi-Fi 6 (802.11ax) and Bluetooth 5.0 or higher | |
| Ports | Minimum 2 × USB-A, 1 × USB Type-C, 1 × HDMI, 1 × 3.5 mm audio combo jack | |
| Webcam | Integrated HD (720p) webcam or higher with microphone | |
| Keyboard | Full-size keyboard with touchpad | |
| Battery | Minimum 40 Watt lithium-ion; typical backup 6 hours or higher | |
| Warranty | Minimum 1 year comprehensive warranty (parts and labor) | |
| Service Center | Bidder must have an authorized service center in Nepal | |
| Accessories | Original adapter/charger, carry bag | |

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## 7. Laptop (Type 2 – 15.6″, i5 12th Gen)

| Category | Specification | Remark |
|---|---|---|
| Brand | [to be proposed] | |
| Model No. | [to be proposed] | |
| Processor | Minimum Intel Core i5 (12th Gen) or higher | |
| RAM | Minimum 16 GB DDR4 | |
| Storage | Minimum 512 GB NVMe SSD | |
| Display | 15.6″ Full HD (1920 × 1080), anti-glare | |
| Graphics | Integrated Intel Iris Xe graphics or higher | |
| Operating System | Genuine Windows 11 Pro/Home (64-bit), pre-installed with license | |
| Wireless | Wi-Fi 6 (802.11ax) and Bluetooth 5.0 or higher | |
| Ports | Minimum 2 × USB-A, 1 × USB Type-C, 1 × HDMI, 1 × 3.5 mm audio combo jack | |
| Webcam | Integrated HD (720p) webcam or higher with microphone | |
| Keyboard | Full-size keyboard with touchpad | |
| Battery | Minimum 40 Watt lithium-ion; typical backup 6 hours or higher | |
| Warranty | Minimum 1 year comprehensive warranty (parts and labor) | |
| Service Center | Bidder must have an authorized service center in Nepal | |
| Accessories | Original adapter/charger, carry bag | |

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## 8. Laptop (Type 3 – 14″, Entry Level)

| Category | Specification | Remark |
|---|---|---|
| Brand | [to be proposed] | |
| Model No. | [to be proposed] | |
| Processor | Minimum Intel Core i5 (11th Gen) or higher | |
| RAM | Minimum 8 GB DDR4, expandable to 16 GB (16 GB preferred) | |
| Storage | Minimum 256 GB NVMe SSD (512 GB preferred) | |
| Display | 14″ Full HD (1920 × 1080), anti-glare | |
| Graphics | Integrated Intel Iris Xe graphics or higher | |
| Operating System | Genuine Windows 11 Pro/Home (64-bit), pre-installed with license | |
| Wireless | Wi-Fi 6 (802.11ax) and Bluetooth 5.0 or higher | |
| Ports | Minimum 2 × USB-A, 1 × USB Type-C, 1 × HDMI, 1 × 3.5 mm audio combo jack | |
| Webcam | Integrated HD (720p) webcam or higher with microphone | |
| Keyboard | Full-size keyboard with touchpad | |
| Battery | Minimum 40 Watt lithium-ion; typical backup 6 hours or higher | |
| Warranty | Minimum 1 year comprehensive warranty (parts and labor) | |
| Service Center | Bidder must have an authorized service center in Nepal | |
| Accessories | Original adapter/charger, carry bag | |



## 9. Laptop (Type 4 – i5 13th Gen, three configurations)

| Category | Specification | Remark |
|---|---|---|
| Brand | [to be proposed] | |
| Model No. | [to be proposed] | |
| Processor | Minimum Intel Core i5 (13th Gen) or higher | |
| RAM | As per configuration below | |
| Storage | As per configuration below | |
| Display | 14″ or 15.6″ Full HD (1920 × 1080), anti-glare (bidder to state size) | |
| Graphics | Integrated Intel Iris Xe graphics or higher | |
| Operating System | Genuine Windows 11 Pro/Home (64-bit), pre-installed with license | |
| Wireless | Wi-Fi 6 (802.11ax) and Bluetooth 5.0 or higher | |
| Ports | Minimum 2 × USB-A, 1 × USB Type-C, 1 × HDMI, 1 × 3.5 mm audio combo jack | |
| Webcam | Integrated HD (720p) webcam or higher with microphone | |
| Keyboard | Full-size keyboard with touchpad | |
| Battery | Minimum 40 Watt lithium-ion; typical backup 6 hours or higher | |
| **Configurations (each to be quoted separately)** | | |
| Configuration A | 8 GB RAM / 512 GB NVMe SSD | Quote separately |
| Configuration B | 16 GB RAM / 512 GB NVMe SSD | Quote separately |
| Configuration C | 16 GB RAM / 1 TB NVMe SSD | Quote separately |
| Warranty | Minimum 1 year comprehensive warranty (parts and labor) | |
| Service Center | Bidder must have an authorized service center in Nepal | |
| Accessories | Original adapter/charger, carry bag | |

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## 10. Multifunction Printer (3-in-1, Monochrome Laser, Wi-Fi)

| Category | Specification | Remark |
|---|---|---|
| Brand | [to be proposed] | |
| Model No. | [to be proposed] | |
| **General** | | |
| Functions | Print, Copy, Scan | |
| Print Technology | Monochrome laser | |
| **Print** | | |
| Print Speed | Minimum 30 ppm (A4) | |
| Print Resolution | Up to 1200 × 1200 dpi or higher | |
| Duplex | Automatic two-sided printing | |
| First Print Out Time | ≤ 8.5 seconds | |
| **Copy & Scan** | | |
| Copy Speed | Minimum 30 cpm (A4) | |
| Copy Features | Zoom 25–400%, ID card copy, multiple copies 1–99 | |
| Scanner | Flatbed colour scanner, minimum 600 × 600 dpi optical; ADF preferred | |
| Scan Formats | PDF, JPEG, TIFF | |
| **Paper & Connectivity** | | |
| Paper Input | Minimum 250-sheet tray + manual feed | |
| Paper Sizes | A4, A5, Letter, Legal, envelopes | |
| OS Compatibility | Windows 10/11, macOS, Linux | |
| Memory | Minimum 64 MB | |
| Monthly Duty Cycle | Minimum 15,000 pages | |
| Connectivity | Hi-Speed USB 2.0, Wi-Fi (802.11b/g/n), mobile printing | |
| Warranty | Minimum 1 year comprehensive warranty (parts and labor) | |
| Service Center | Bidder must have an authorized service center in Nepal | |
| Accessories | Starter toner and drum, USB cable, power cable, drivers | |



## 11. Printer (Monochrome Laser, Print Only)

| Category | Specification | Remark |
|---|---|---|
| Brand | [to be proposed] | |
| Model No. | [to be proposed] | |
| Function | Print only | |
| Print Technology | Monochrome laser | |
| Print Speed | Minimum 18 ppm (A4) | |
| Print Resolution | Minimum 600 × 600 dpi (up to 2400 × 600 enhanced or higher) | |
| First Print Out Time | ≤ 10 seconds | |
| Paper Input | Minimum 150-sheet tray | |
| Paper Sizes | A4, A5, Letter, Legal, envelopes | |
| OS Compatibility | Windows 10/11, macOS, Linux | |
| Monthly Duty Cycle | Minimum 5,000 pages | |
| Connectivity | Hi-Speed USB 2.0 (Wi-Fi preferred) | |
| Warranty | Minimum 1 year comprehensive warranty (parts and labor) | |
| Service Center | Bidder must have an authorized service center in Nepal | |
| Accessories | Starter toner cartridge, USB cable, power cable, drivers | |



## 12. Colour Ink Tank Printer (3-in-1, USB)

| Category | Specification | Remark |
|---|---|---|
| Brand | [to be proposed] | |
| Model No. | [to be proposed] | |
| **General** | | |
| Functions | Print, Copy, Scan | |
| Print Technology | Colour refillable ink tank | |
| **Print** | | |
| Print Speed (ISO) | Minimum 8.5 ipm black / 5 ipm colour | |
| Print Resolution | Up to 4800 × 1200 dpi or higher | |
| Borderless Printing | Supported (photo paper) | |
| Page Yield (Bundled Ink) | Minimum 6,000 pages black / 7,000 pages colour | |
| **Copy & Scan** | | |
| Scanner | Flatbed CIS, minimum 600 × 1200 dpi optical | |
| Copy Features | Multiple copies, reduce/enlarge | |
| **Paper & Connectivity** | | |
| Paper Input | Minimum 100-sheet rear tray | |
| Paper Sizes | A4, A5, B5, Letter, Legal, 4×6″ photo, envelopes | |
| Connectivity | Hi-Speed USB 2.0 | |
| OS Compatibility | Windows 10/11, macOS | |
| Warranty | Minimum 1 year comprehensive warranty (parts and labor) | |
| Service Center | Bidder must have an authorized service center in Nepal | |
| Accessories | Full set of starter ink bottles (black + colour), USB cable, power cable, drivers | |



### 13. Colour Ink Tank Printer (3-in-1, Wi-Fi)

| Category | Specification | Remark |
|---|---|---|
| Brand | [to be proposed] | |
| Model No. | [to be proposed] | |
| **General** | | |
| Functions | Print, Copy, Scan | |
| Print Technology | Colour refillable ink tank | |
| **Print** | | |
| Print Speed (ISO) | Minimum 8.5 ipm black / 5 ipm colour | |
| Print Resolution | Up to 4800 × 1200 dpi or higher | |
| Borderless Printing | Supported (photo paper) | |
| Page Yield (Bundled Ink) | Minimum 6,000 pages black / 7,000 pages colour | |
| **Copy & Scan** | | |
| Scanner | Flatbed CIS, minimum 600 × 1200 dpi optical | |
| Copy Features | Multiple copies, reduce/enlarge | |
| **Paper & Connectivity** | | |
| Paper Input | Minimum 100-sheet rear tray | |
| Paper Sizes | A4, A5, B5, Letter, Legal, 4×6″ photo, envelopes | |
| Connectivity | Hi-Speed USB 2.0, Wi-Fi (802.11b/g/n), wireless direct and mobile printing | |
| OS Compatibility | Windows 10/11, macOS | |
| Warranty | Minimum 1 year comprehensive warranty (parts and labor) | |
| Service Center | Bidder must have an authorized service center in Nepal | |
| Accessories | Full set of starter ink bottles (black + colour), USB cable, power cable, drivers | |

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## 14. Monitor (19″ / 22″ / 24″ / 27″)

| Category | Specification | Remark |
|---|---|---|
| Brand | [to be proposed] | |
| Model No. | [to be proposed] | |
| Panel Type | IPS or VA LED-backlit, anti-glare | |
| **Sizes (each to be quoted separately)** | | |
| 19″ | 18.5″–19.5″, minimum 1366 × 768 (HD+) | Quote separately |
| 22″ | 21.5″–22″, Full HD 1920 × 1080 | Quote separately |
| 24″ | 23.8″–24″, Full HD 1920 × 1080 | Quote separately |
| 27″ | 27″, Full HD 1920 × 1080 or higher (QHD preferred) | Quote separately |
| **Common** | | |
| Refresh Rate | Minimum 60 Hz (75 Hz or higher preferred) | |
| Response Time | ≤ 5 ms | |
| Brightness | Minimum 250 cd/m² | |
| Inputs | Minimum 1 × HDMI and 1 × VGA or DisplayPort | |
| Mounting | VESA mount compatible (100 × 100 mm), tilt adjustable stand | |
| Warranty | Minimum 3 years comprehensive warranty (parts and labor) | |
| Service Center | Bidder must have an authorized service center in Nepal | |
| Accessories | Power cable/adapter, HDMI cable | |

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## 15. NVMe SSD (128 / 256 / 512 GB)

| Category | Specification | Remark |
|---|---|---|
| Brand | [to be proposed] | |
| Model No. | [to be proposed] | |
| Form Factor | M.2 2280 | |
| Interface | PCIe Gen 3.0 ×4 NVMe or higher (Gen 4 preferred) | |
| Capacity | 128 GB / 256 GB / 512 GB (each to be quoted separately) | |
| Sequential Read | Minimum 1,500 MB/s (512 GB: minimum 2,000 MB/s) | |
| Sequential Write | Minimum 1,000 MB/s | |
| NAND Type | 3D NAND TLC preferred | |
| Endurance (TBW) | As per manufacturer, to be stated by bidder | |
| Warranty | Minimum 3 years comprehensive warranty (parts and labor) | |
| Service Center | Bidder must have an authorized service center in Nepal | |

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## 16. SATA SSD (128 / 256 / 512 GB)

| Category | Specification | Remark |
|---|---|---|
| Brand | [to be proposed] | |
| Model No. | [to be proposed] | |
| Form Factor | 2.5″, 7 mm | |
| Interface | SATA III 6 Gb/s | |
| Capacity | 128 GB / 256 GB / 512 GB (each to be quoted separately) | |
| Sequential Read | Up to 500 MB/s or higher | |
| Sequential Write | Up to 450 MB/s or higher | |
| NAND Type | 3D NAND | |
| Endurance (TBW) | As per manufacturer, to be stated by bidder | |
| Warranty | Minimum 3 years comprehensive warranty (parts and labor) | |
| Service Center | Bidder must have an authorized service center in Nepal | |



## 17. Biometric Attendance Device (Face / Fingerprint / Card)

| Category | Specification | Remark |
|---|---|---|
| Brand | [to be proposed] | |
| Model No. | [to be proposed] | |
| Display | Minimum 2.4″ LCD screen | |
| Camera | Minimum 2 MP lens | |
| Authentication Methods | Face, fingerprint, card and PIN (single and combined modes) | |
| Card Type | Mifare card supported | |
| Capacity | Minimum 500 faces, 1,000 fingerprints, 1,000 cards and 100,000 event logs | |
| Face Recognition Speed | < 0.2 s per user | |
| Communication | TCP/IP (RJ-45); Wi-Fi optional; USB for data export | |
| Integration | Open API/SDK for integration with attendance/HR software; attendance software to be supplied | |
| Configuration | Configuration via web client | |
| Power | 12 V DC adapter (included) | |
| Warranty | Minimum 1 year comprehensive warranty (parts and labor) | |
| Service Center | Bidder must have an authorized service center in Nepal | |
| Accessories | Power adapter, mounting kit, 10 Mifare cards, attendance software and installation | |



## 18. Multimedia Projector

| Category | Specification | Remark |
|---|---|---|
| Brand | [to be proposed] | |
| Model No. | [to be proposed] | |
| Technology | 3LCD or DLP | |
| Brightness | Minimum 4,000 ANSI lumens | |
| Native Resolution | Minimum WXGA (1280 × 800); Full HD 1920 × 1080 preferred for halls | |
| Contrast Ratio | Minimum 15,000:1 | |
| Lamp Life | Minimum 6,000 hours (normal mode) | |
| Throw Ratio | Standard throw, image size 30″–300″ | |
| Inputs | Minimum 2 × HDMI, 1 × VGA, USB, audio in | |
| Wireless | Wi-Fi screen mirroring (built-in or with supplied module) | |
| Speaker | Built-in, minimum 10 W | |
| Warranty | Minimum 1 year comprehensive warranty (parts and labor) | |
| Service Center | Bidder must have an authorized service center in Nepal | |
| Accessories | Remote with batteries, power cable, VGA and HDMI cable (minimum 10 m), carrying case | |



## 19. Smart Interactive Flat Panel – 75″

| Category | Specification | Remark |
|---|---|---|
| Brand | [to be proposed] | |
| Model No. | [to be proposed] | |
| **Display** | | |
| Size | 75″ | |
| Panel Grade | Industrial/commercial grade LED panel | |
| Resolution | 4K UHD 3840 × 2160 | |
| Colour | 1.07 billion colours (10-bit) | |
| Brightness | ≥ 350 cd/m² | |
| Viewing Angle | 178° (H) / 178° (V) | |
| Panel Life | ≥ 50,000 hours | |
| Glass | Anti-glare tempered glass (minimum 4 mm) | |
| **Touch** | | |
| Touch Technology | Infrared or capacitive, minimum 20-point multi-touch, no drift or blind spot | |
| Touch OS Support | Windows, Android, Linux, macOS | |
| **Built-in Android System** | | |
| Android Version | Android 14 or higher | |
| CPU | Octa-core (8 × Cortex-A55 class) 1.2 GHz or higher | |
| Memory | Minimum 8 GB DDR4 RAM, 128 GB storage | |
| Camera | Built-in camera, minimum 8 MP (for video conferencing) | |
| Microphone | Built-in microphone | |
| Speakers | Minimum 2 × 20 W | |
| Wireless | Dual-band Wi-Fi (2.4 GHz / 5 GHz) and Bluetooth 5.0 or higher | |
| **Ports** | | |
| HDMI | Minimum 1 × HDMI input | Confirm with vendor |
| USB | Minimum 3 × USB 2.0 Type-A, 1 × USB 3.0 Type-A, 1 × USB Type-C, 2 × USB Type-B (touch) | |
| Other Ports | 1 × RJ-45 LAN, 1 × RS-232, audio in and audio out | |

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| Category | Specification | Remark |
|---|---|---|
| OPS Slot | Standard OPS slot (OPS PC optional, to be quoted separately) | OPS PC optional |
| **Software & Functions** | | |
| Whiteboard | Built-in whiteboard application with annotation over any source | |
| Screen Mirroring | Wireless mirroring from Windows, macOS, iOS, Android; at least 4 devices simultaneously | |
| Other Functions | Screenshot, split screen, floating toolbar, file sharing via QR code, child lock | |
| Warranty | Minimum 1 year comprehensive warranty (parts and labor) | |
| Service Center | Bidder must have an authorized service center in Nepal | |
| Accessories | Remote, 2 stylus pens, wall mount kit, wireless screen-share dongle, HDMI and USB touch cables | |
| Installation | Installation and basic user training by supplier | |



## 20. Smart Interactive Flat Panel – 86″

| Category | Specification | Remark |
|---|---|---|
| Brand | [to be proposed] | |
| Model No. | [to be proposed] | |
| **Display** | | |
| Size | 86″ | |
| Panel Grade | Industrial/commercial grade LED panel | |
| Resolution | 4K UHD 3840 × 2160 | |
| Colour | 1.07 billion colours (10-bit) | |
| Brightness | ≥ 350 cd/m² | |
| Viewing Angle | 178° (H) / 178° (V) | |
| Panel Life | ≥ 50,000 hours | |
| Glass | Anti-glare tempered glass (minimum 4 mm) | |
| **Touch** | | |
| Touch Technology | Infrared or capacitive, minimum 20-point multi-touch, no drift or blind spot | |
| Touch OS Support | Windows, Android, Linux, macOS | |
| **Built-in Android System** | | |
| Android Version | Android 14 or higher | |
| CPU | Octa-core (8 × Cortex-A55 class) 1.2 GHz or higher | |
| Memory | Minimum 8 GB DDR4 RAM, 128 GB storage | |
| Camera | Built-in camera, minimum 8 MP (for video conferencing) | |
| Microphone | Built-in microphone | |
| Speakers | Minimum 2 × 20 W | |
| Wireless | Dual-band Wi-Fi (2.4 GHz / 5 GHz) and Bluetooth 5.0 or higher | |
| **Ports** | | |
| HDMI | Minimum 1 × HDMI input | Confirm with vendor |
| USB | Minimum 3 × USB 2.0 Type-A, 1 × USB 3.0 Type-A, 1 × USB Type-C, 2 × USB Type-B (touch) | |
| Other Ports | 1 × RJ-45 LAN, 1 × RS-232, audio in and audio out | |

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| Category | Specification | Remark |
|---|---|---|
| OPS Slot | Standard OPS slot (OPS PC optional, to be quoted separately) | OPS PC optional |
| **Software & Functions** | | |
| Whiteboard | Built-in whiteboard application with annotation over any source | |
| Screen Mirroring | Wireless mirroring from Windows, macOS, iOS, Android; at least 4 devices simultaneously | |
| Other Functions | Screenshot, split screen, floating toolbar, file sharing via QR code, child lock | |
| Warranty | Minimum 1 year comprehensive warranty (parts and labor) | |
| Service Center | Bidder must have an authorized service center in Nepal | |
| Accessories | Remote, 2 stylus pens, wall mount kit, wireless screen-share dongle, HDMI and USB touch cables | |
| Installation | Installation and basic user training by supplier | |



## 21. Smart Interactive Flat Panel – 65″

| Category | Specification | Remark |
|---|---|---|
| Brand | [to be proposed] | |
| Model No. | [to be proposed] | |
| **Display** | | |
| Size | 65″ | |
| Panel Grade | Industrial/commercial grade LED panel | |
| Resolution | 4K UHD 3840 × 2160 | |
| Colour | 1.07 billion colours (10-bit) | |
| Brightness | ≥ 350 cd/m² | |
| Viewing Angle | 178° (H) / 178° (V) | |
| Panel Life | ≥ 50,000 hours | |
| Glass | Anti-glare tempered glass (minimum 4 mm) | |
| **Touch** | | |
| Touch Technology | Infrared or capacitive, minimum 20-point multi-touch, no drift or blind spot | |
| Touch OS Support | Windows, Android, Linux, macOS | |
| **Built-in Android System** | | |
| Android Version | Android 14 or higher | |
| CPU | Octa-core (8 × Cortex-A55 class) 1.2 GHz or higher | |
| Memory | Minimum 8 GB DDR4 RAM, 128 GB storage | |
| Camera | Built-in camera, minimum 8 MP (for video conferencing) | |
| Microphone | Built-in microphone | |
| Speakers | Minimum 2 × 20 W | |
| Wireless | Dual-band Wi-Fi (2.4 GHz / 5 GHz) and Bluetooth 5.0 or higher | |
| **Ports** | | |
| HDMI | Minimum 1 × HDMI input | Confirm with vendor |
| USB | Minimum 3 × USB 2.0 Type-A, 1 × USB 3.0 Type-A, 1 × USB Type-C, 2 × USB Type-B (touch) | |
| Other Ports | 1 × RJ-45 LAN, 1 × RS-232, audio in and audio out | |

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| Category | Specification | Remark |
|---|---|---|
| OPS Slot | Standard OPS slot (OPS PC optional, to be quoted separately) | OPS PC optional |
| **Software & Functions** | | |
| Whiteboard | Built-in whiteboard application with annotation over any source | |
| Screen Mirroring | Wireless mirroring from Windows, macOS, iOS, Android; at least 4 devices simultaneously | |
| Other Functions | Screenshot, split screen, floating toolbar, file sharing via QR code, child lock | |
| Warranty | Minimum 1 year comprehensive warranty (parts and labor) | |
| Service Center | Bidder must have an authorized service center in Nepal | |
| Accessories | Remote, 2 stylus pens, wall mount kit, wireless screen-share dongle, HDMI and USB touch cables | |
| Installation | Installation and basic user training by supplier | |



## 22. Mobile Stand for Interactive Panel

| Category | Specification | Remark |
|---|---|---|
| Brand | [to be proposed] | |
| Model No. | [to be proposed] | |
| Compatible Screen Size | 55″ to 100″ | |
| Load Capacity | Minimum 120 kg | |
| VESA Compatibility | Up to 1000 × 600 mm or wider | |
| Height | Adjustable (multi-level) | |
| Material | Heavy-duty steel frame, powder-coated | |
| Wheels | Universal (360°) castor wheels with brake/lock | |
| Additional | Shelf/tray for camera or accessories; cable management | |
| Warranty | Minimum 1 year comprehensive warranty (parts and labor) | |
| Accessories | Mounting hardware and assembly tools | |



### 23. Smart Television (43″ / 55″ / 65″)

| Category | Specification | Remark |
|---|---|---|
| Brand | [to be proposed] | |
| Model No. | [to be proposed] | |
| **Sizes (each to be quoted separately)** | | |
| 43″ | 43″, 4K UHD 3840 × 2160 (Full HD acceptable if stated) | Quote separately |
| 55″ | 55″, 4K UHD 3840 × 2160 | Quote separately |
| 65″ | 65″, 4K UHD 3840 × 2160 | Quote separately |
| **Common** | | |
| Display Type | LED/QLED, HDR10 support | |
| Smart Platform | Smart TV OS with app store (YouTube, browser, streaming apps) | |
| AI Features | AI picture/sound optimization and voice assistant support | |
| Connectivity | Minimum 2 × HDMI, 1 × USB, LAN, Wi-Fi, Bluetooth | |
| Screen Mirroring | Supports screen mirroring from Android/iOS/Windows | |
| Audio | Minimum 20 W output | |
| Warranty | Minimum 1 year comprehensive warranty (parts and labor) | |
| Service Center | Bidder must have an authorized service center in Nepal | |
| Accessories | Remote with batteries, table stand, wall mount bracket | |

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## 24. A3 Monochrome Laser Multifunction Printer

| Category | Specification | Remark |
|---|---|---|
| Brand | [to be proposed] | |
| Model No. | [to be proposed] | |
| **General** | | |
| Functions | Print, Copy, Scan (network) | |
| Technology | Monochrome laser | |
| Paper Size | Up to A3 (A3, A4, A5, B4, Legal, Letter) | |
| **Print / Copy** | | |
| Speed | Minimum 25 ppm (A4) / 12 ppm (A3) | |
| Resolution | Up to 1200 × 1200 dpi | |
| Duplex | Automatic duplex printing and copying | |
| First Copy Time | ≤ 7 seconds | |
| Zoom | 25–400% | |
| **Scan** | | |
| Document Feeder | Minimum 50-sheet DADF/RADF | |
| Scan Resolution | Minimum 600 × 600 dpi, colour scan | |
| Scan Destinations | Scan to email, PC/SMB, USB; PDF, JPEG, TIFF | |
| **Paper & System** | | |
| Paper Input | Minimum 2 × 250-sheet trays + 100-sheet bypass | |
| Memory | Minimum 2 GB | |
| Control Panel | Colour touch screen | |
| Connectivity | Gigabit Ethernet, USB 2.0 (Wi-Fi optional) | |
| Monthly Duty Cycle | Minimum 50,000 pages | |
| Warranty | Minimum 1 year comprehensive warranty (parts and labor) | |
| Service Center | Bidder must have an authorized service center in Nepal | |
| Accessories | Starter toner, power cable, drivers | |
| Installation | Installation and demonstration by supplier | |

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