

**PERKHIDMATAN MEMBEKAL ALAT GANTI DAN AKSESORI KOMPUTER UNTUK KEGUNAAN PEJABAT MAJLIS BANDARAYA
ISKANDAR PUTERI BAGI TAHUN 2026 / 2027**

SPESIFIKASI TEKNIKAL

BIL.	BAHAGIAN	MUKA SURAT
A	PAPARAN & VISUAL	2/0% P%
B	AUDIO & KOMUNIKASI	4/0% P%
C	WIRELESS VIDEO	7/0% P%
D	KABEL VIDEO & DATA	8/0% P%
E	PERKAKASAN DALAMAN	10/0% P%
F	SAMBUNGAN PERANTI	13/0% P%
G	INPUT DEVICE	15/0% P%
H	PERALATAN RANGKAIAN	19/0% P%
I	BEKALAN KUASA	20/0% P%
J	PERALATAN KESELAMATAN	22/ 30
K	AKSESORI PINTAR	24/ 30
L	ERGONOMIK & AKSESORI MEJA	25/ 30
M	PERALATAN KHAS	27/ 30
N	AKSESORI PERANTI	28/ 30
O	AKSESORI KAMERA	29/ 30
P	PERANTI MUDAH ALIH	30/ 30

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B.2	TP-Link Bluetooth 5.3 Nano USB (UB500) atau yang setara <table border="1" data-bbox="300 757 960 1111"> <thead> <tr> <th>ITEM</th> <th>SPESIFIKASI MINIMUM</th> </tr> </thead> <tbody> <tr> <td>1. Jenis Peranti</td> <td>Bluetooth USB Nano Adapter</td> </tr> <tr> <td>2. Standard Bluetooth</td> <td>Bluetooth 5.3 (termasuk BLE support)</td> </tr> <tr> <td>3. Backward Compatibility</td> <td>Backward compatible dengan BT 5.2/5.0/4.0/3.0/2.1</td> </tr> <tr> <td>4. Interface USB</td> <td>USB Type-A (USB 2.0)</td> </tr> <tr> <td>5. Range & Connectivity</td> <td>Sehingga ~10-20 m</td> </tr> <tr> <td>6. Operating Systems</td> <td>Windows 11/10/8.1/7</td> </tr> <tr> <td>7. Multi-Device Support</td> <td>Supports connection of 7 Bluetooth devices simultaneously</td> </tr> <tr> <td>8. Power & Plug-and-Play</td> <td>USB bus-powered; Plug-and-Play</td> </tr> <tr> <td>9. Dimensi Fizikal</td> <td>Nano form factor</td> </tr> <tr> <td>10. Operating Conditions</td> <td>Temperature: 0 °C–40 °C</td> </tr> <tr> <td>11. Warranty</td> <td>Minimum 12 bulan</td> </tr> </tbody> </table>	ITEM	SPESIFIKASI MINIMUM	1. Jenis Peranti	Bluetooth USB Nano Adapter	2. Standard Bluetooth	Bluetooth 5.3 (termasuk BLE support)	3. Backward Compatibility	Backward compatible dengan BT 5.2/5.0/4.0/3.0/2.1	4. Interface USB	USB Type-A (USB 2.0)	5. Range & Connectivity	Sehingga ~10-20 m	6. Operating Systems	Windows 11/10/8.1/7	7. Multi-Device Support	Supports connection of 7 Bluetooth devices simultaneously	8. Power & Plug-and-Play	USB bus-powered; Plug-and-Play	9. Dimensi Fizikal	Nano form factor	10. Operating Conditions	Temperature: 0 °C–40 °C	11. Warranty	Minimum 12 bulan			
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B.3	KEBIDUMEI Bluetooth 6.0 Audio Receiver atau yang setara <table border="1" data-bbox="300 1182 960 1585"> <thead> <tr> <th>ITEM</th> <th>SPESIFIKASI MINIMUM</th> </tr> </thead> <tbody> <tr> <td>1. Jenis Peranti</td> <td>Bluetooth 6.0 USB Audio Receiver & Adapter (Transmitter/Receiver)</td> </tr> <tr> <td>2. Bluetooth Standard</td> <td>Bluetooth 5.4 / 6.0 backward compatible dengan 5.3/5.2/5.1/5.0/4.0</td> </tr> <tr> <td>3. Interface USB</td> <td>USB Type-A (USB 2.0)</td> </tr> <tr> <td>4. Jarak Operasi</td> <td>Minimum 10–20 m</td> </tr> <tr> <td>5. Audio Codec</td> <td>Support A2DP, SBC, AAC 48 kHz CD-quality</td> </tr> <tr> <td>6. Multi-Device Support</td> <td>Sokongan sehingga 5 devices serentak</td> </tr> <tr> <td>7. Sistem Operasi</td> <td>Plug-and-Play</td> </tr> <tr> <td>8. Dimensi Fizikal</td> <td>Nano USB form factor</td> </tr> <tr> <td>9. Operating Conditions</td> <td>Operating temp: -20°C - 70°C</td> </tr> <tr> <td>10. Warranty</td> <td>Minimum 12 bulan</td> </tr> </tbody> </table>	ITEM	SPESIFIKASI MINIMUM	1. Jenis Peranti	Bluetooth 6.0 USB Audio Receiver & Adapter (Transmitter/Receiver)	2. Bluetooth Standard	Bluetooth 5.4 / 6.0 backward compatible dengan 5.3/5.2/5.1/5.0/4.0	3. Interface USB	USB Type-A (USB 2.0)	4. Jarak Operasi	Minimum 10–20 m	5. Audio Codec	Support A2DP, SBC, AAC 48 kHz CD-quality	6. Multi-Device Support	Sokongan sehingga 5 devices serentak	7. Sistem Operasi	Plug-and-Play	8. Dimensi Fizikal	Nano USB form factor	9. Operating Conditions	Operating temp: -20°C - 70°C	10. Warranty	Minimum 12 bulan					
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B.4	<p>Jabra Speak2 75 MS Speakerphone with Link380A Dongle atau yang setara</p> <table border="1"> <thead> <tr> <th>ITEM</th> <th>SPEKIFIKASI MINIMUM</th> </tr> </thead> <tbody> <tr> <td>Device Type</td> <td>Portable USB & Bluetooth Speakerphone (conference speaker)</td> </tr> <tr> <td>Certified Platform</td> <td>Microsoft Teams Certified (MS version)</td> </tr> <tr> <td>Connectivity</td> <td>USB-C wired • Bluetooth 5.2 • USB-A dongle (Link380A)</td> </tr> <tr> <td>Wireless Range</td> <td>Up to ~30 m (open environment)</td> </tr> <tr> <td>Microphone System</td> <td>4-microphone beamforming array (360° voice pickup)</td> </tr> <tr> <td>Speaker Size</td> <td>65 mm full-range speaker</td> </tr> <tr> <td>Audio Processing</td> <td>Full-duplex audio + Echo cancellation + Noise suppression</td> </tr> <tr> <td>Voice Pickup Range</td> <td>±2.5 m radius (meeting table coverage)</td> </tr> <tr> <td>Frequency Response (Speaker)</td> <td>~80 Hz – 20 kHz</td> </tr> <tr> <td>Frequency Response (Mic)</td> <td>~150 Hz – 14 kHz</td> </tr> <tr> <td>Supported Modes</td> <td>Music mode & Voice conference mode</td> </tr> <tr> <td>Bluetooth Pairing</td> <td>Up to 8 devices (2 active simultaneously)</td> </tr> <tr> <td>USB Dongle</td> <td>Jabra Link380A USB-A wireless adapter</td> </tr> <tr> <td>Battery Type</td> <td>Built-in rechargeable Li-ion</td> </tr> <tr> <td>Battery Capacity</td> <td>~4700 mAh</td> </tr> <tr> <td>Battery Life</td> <td>Up to ±32 hours talk time</td> </tr> <tr> <td>Charging Time</td> <td>±2.5 hours</td> </tr> <tr> <td>Charging Port</td> <td>USB-C</td> </tr> <tr> <td>Water/Dust Protection</td> <td>IP64 (dust resistant & splash resistant)</td> </tr> </tbody> </table>	ITEM	SPEKIFIKASI MINIMUM	Device Type	Portable USB & Bluetooth Speakerphone (conference speaker)	Certified Platform	Microsoft Teams Certified (MS version)	Connectivity	USB-C wired • Bluetooth 5.2 • USB-A dongle (Link380A)	Wireless Range	Up to ~30 m (open environment)	Microphone System	4-microphone beamforming array (360° voice pickup)	Speaker Size	65 mm full-range speaker	Audio Processing	Full-duplex audio + Echo cancellation + Noise suppression	Voice Pickup Range	±2.5 m radius (meeting table coverage)	Frequency Response (Speaker)	~80 Hz – 20 kHz	Frequency Response (Mic)	~150 Hz – 14 kHz	Supported Modes	Music mode & Voice conference mode	Bluetooth Pairing	Up to 8 devices (2 active simultaneously)	USB Dongle	Jabra Link380A USB-A wireless adapter	Battery Type	Built-in rechargeable Li-ion	Battery Capacity	~4700 mAh	Battery Life	Up to ±32 hours talk time	Charging Time	±2.5 hours	Charging Port	USB-C	Water/Dust Protection	IP64 (dust resistant & splash resistant)													
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B.6	<p>Boya Boyalink 2.4Ghz Wireless Microphone System atau yang setara</p> <table border="1"> <thead> <tr> <th>ITEM</th> <th>SPEKIFIKASI MINIMUM</th> </tr> </thead> <tbody> <tr> <td>Device Type</td> <td>Wireless Lavalier Microphone System</td> </tr> <tr> <td>Transmission Technology</td> <td>2.4 GHz digital wireless transmission</td> </tr> <tr> <td>Microphone Type</td> <td>Built-in omnidirectional condenser microphone</td> </tr> <tr> <td>Channel</td> <td>Dual transmitter (2-person recording)</td> </tr> <tr> <td>Frequency Response</td> <td>20 Hz – 20 kHz</td> </tr> <tr> <td>Transmission Range</td> <td>Up to approx. 100 m (line-of-sight)</td> </tr> <tr> <td>Latency</td> <td>Very low latency real-time audio monitoring</td> </tr> <tr> <td>Noise Reduction</td> <td>Built-in DSP noise reduction</td> </tr> <tr> <td>Output Interface</td> <td>USB-C, Lightning & 3.5 mm TRS/TRRS (interchangeable adapter)</td> </tr> <tr> <td>Compatibility</td> <td>Smartphone (Android/iPhone), camera, laptop, tablet</td> </tr> <tr> <td>Gain Control</td> <td>Adjustable input gain on receiver</td> </tr> <tr> <td>Monitoring</td> <td>Real-time audio monitoring supported</td> </tr> </tbody> </table>	ITEM	SPEKIFIKASI MINIMUM	Device Type	Wireless Lavalier Microphone System	Transmission Technology	2.4 GHz digital wireless transmission	Microphone Type	Built-in omnidirectional condenser microphone	Channel	Dual transmitter (2-person recording)	Frequency Response	20 Hz – 20 kHz	Transmission Range	Up to approx. 100 m (line-of-sight)	Latency	Very low latency real-time audio monitoring	Noise Reduction	Built-in DSP noise reduction	Output Interface	USB-C, Lightning & 3.5 mm TRS/TRRS (interchangeable adapter)	Compatibility	Smartphone (Android/iPhone), camera, laptop, tablet	Gain Control	Adjustable input gain on receiver	Monitoring	Real-time audio monitoring supported													
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D.1	KAMEHA KA169R HDMI Cable 50M atau yang setara <table border="1" style="margin-top: 10px;"> <thead> <tr> <th>ITEM</th> <th>SPESIFIKASI MINIMUM</th> </tr> </thead> <tbody> <tr> <td>1. Jenis Kabel</td> <td>Active hybrid fiber HDMI cable (outdoor-grade armoured)</td> </tr> <tr> <td>2. Model</td> <td>KAMEHA KA169R atau setara</td> </tr> <tr> <td>3. Standard HDMI</td> <td>HDMI 2.0 / 18 Gbps compliant</td> </tr> <tr> <td>4. Length</td> <td>50 m ± 0.3 m</td> </tr> <tr> <td>5. Supported Resolutions</td> <td>Up to 4K@60 Hz & 1080p (HDTV/PC)</td> </tr> <tr> <td>6. HDCP & EDID</td> <td>Support HDCP1.4 / HDCP2.2 & bi-directional EDID</td> </tr> <tr> <td>7. Connector</td> <td>HDMI Type-A male (standard)</td> </tr> <tr> <td>8. Cable Construction</td> <td>Armoured hybrid fiber + copper conductors (high crush/ tensile resistance)</td> </tr> <tr> <td>9. Power</td> <td>No external power required (self-powered through HDMI)</td> </tr> <tr> <td>10. Operating / Storage</td> <td>-40 °C to 80 °C</td> </tr> <tr> <td>11. Physical</td> <td>Max outer diameter ~5.8 mm</td> </tr> </tbody> </table>	ITEM	SPESIFIKASI MINIMUM	1. Jenis Kabel	Active hybrid fiber HDMI cable (outdoor-grade armoured)	2. Model	KAMEHA KA169R atau setara	3. Standard HDMI	HDMI 2.0 / 18 Gbps compliant	4. Length	50 m ± 0.3 m	5. Supported Resolutions	Up to 4K@60 Hz & 1080p (HDTV/PC)	6. HDCP & EDID	Support HDCP1.4 / HDCP2.2 & bi-directional EDID	7. Connector	HDMI Type-A male (standard)	8. Cable Construction	Armoured hybrid fiber + copper conductors (high crush/ tensile resistance)	9. Power	No external power required (self-powered through HDMI)	10. Operating / Storage	-40 °C to 80 °C	11. Physical	Max outer diameter ~5.8 mm			
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E.1	Kingston NV3 NVMe SSD 1TB atau yang setara <table border="1" data-bbox="301 271 962 654"> <thead> <tr> <th>ITEM</th> <th>SPESIFIKASI MINIMUM</th> </tr> </thead> <tbody> <tr> <td>1. Form Factor</td> <td>NVMe PCIe 4.0 x4 SSD, M.2 2280</td> </tr> <tr> <td>2. Kapasiti</td> <td>1 TB usable storage (minimum 1 TB)</td> </tr> <tr> <td>3. Interface</td> <td>PCIe Gen4 x4 (NVMe 1.4)</td> </tr> <tr> <td rowspan="2">4. Sequential Performance</td> <td>Read 6000 MB/s</td> </tr> <tr> <td>Write 4000 MB/s</td> </tr> <tr> <td rowspan="2">5. NAND & Endurance</td> <td>3D NAND</td> </tr> <tr> <td>Endurance TBW 320 TB</td> </tr> <tr> <td>6. Reliability</td> <td>MTBF 2,000,000 jam</td> </tr> <tr> <td rowspan="2">7. Operating Conditions</td> <td>Operating Temp: 0 °C–70 °C</td> </tr> <tr> <td>Storage Temp: -40 °C–85 °C</td> </tr> <tr> <td>8. Physical</td> <td>Dimension: 22 mm x 80 mm</td> </tr> <tr> <td>9. Warranty</td> <td>Minimum 5 tahun limited warranty atau setara</td> </tr> </tbody> </table>	ITEM	SPESIFIKASI MINIMUM	1. Form Factor	NVMe PCIe 4.0 x4 SSD, M.2 2280	2. Kapasiti	1 TB usable storage (minimum 1 TB)	3. Interface	PCIe Gen4 x4 (NVMe 1.4)	4. Sequential Performance	Read 6000 MB/s	Write 4000 MB/s	5. NAND & Endurance	3D NAND	Endurance TBW 320 TB	6. Reliability	MTBF 2,000,000 jam	7. Operating Conditions	Operating Temp: 0 °C–70 °C	Storage Temp: -40 °C–85 °C	8. Physical	Dimension: 22 mm x 80 mm	9. Warranty	Minimum 5 tahun limited warranty atau setara										
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G.4	<p>Logitech Signature M650 Mouse atau yang setara</p> <table border="1"> <thead> <tr> <th>ITEM</th> <th>SPEKIFIKASI MINIMUM</th> </tr> </thead> <tbody> <tr> <td>Connection Type</td> <td>• Logi BOLT USB Receiver (2.4 GHz) • Bluetooth Low Energy (BLE)</td> </tr> <tr> <td>Wireless Range</td> <td>Up to 10 m (depending on environment)</td> </tr> <tr> <td>Sensor Technology</td> <td>Logitech Advanced Optical Tracking</td> </tr> <tr> <td>DPI (Min–Max)</td> <td>400 - 4,000 DPI</td> </tr> <tr> <td>Buttons</td> <td>5 total: Left/Right click, Back/Forward, Scroll wheel (middle click)</td> </tr> <tr> <td>SmartWheel Scrolling</td> <td>Precision line-by-line or fast scroll (auto switch)</td> </tr> <tr> <td>Silent Touch Technology</td> <td>Click noise reduced 90 % vs standard mouse</td> </tr> <tr> <td>Battery</td> <td>1x AA battery (included)</td> </tr> <tr> <td>Battery Life</td> <td>• Logi BOLT: ~24 months • Bluetooth: ~20 months</td> </tr> <tr> <td>Indicator Lights</td> <td>LED battery & connectivity indicators</td> </tr> <tr> <td>Dimensions</td> <td></td> </tr> <tr> <td>Weight</td> <td>~101.4 g (with battery)</td> </tr> <tr> <td>Compatibility OS</td> <td>Windows, macOS, Linux, ChromeOS, iPadOS, Android</td> </tr> <tr> <td>Customization App</td> <td>Supported via Logi Options+ (Windows/macOS)</td> </tr> <tr> <td>Sustainability Material</td> <td>Post-consumer recycled plastic (Graphite 64 %)</td> </tr> </tbody> </table>	ITEM	SPEKIFIKASI MINIMUM	Connection Type	• Logi BOLT USB Receiver (2.4 GHz) • Bluetooth Low Energy (BLE)	Wireless Range	Up to 10 m (depending on environment)	Sensor Technology	Logitech Advanced Optical Tracking	DPI (Min–Max)	400 - 4,000 DPI	Buttons	5 total: Left/Right click, Back/Forward, Scroll wheel (middle click)	SmartWheel Scrolling	Precision line-by-line or fast scroll (auto switch)	Silent Touch Technology	Click noise reduced 90 % vs standard mouse	Battery	1x AA battery (included)	Battery Life	• Logi BOLT: ~24 months • Bluetooth: ~20 months	Indicator Lights	LED battery & connectivity indicators	Dimensions		Weight	~101.4 g (with battery)	Compatibility OS	Windows, macOS, Linux, ChromeOS, iPadOS, Android	Customization App	Supported via Logi Options+ (Windows/macOS)	Sustainability Material	Post-consumer recycled plastic (Graphite 64 %)			
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G.5	<p>Acer Ergonomic Vertical Computer Mouse atau yang setara</p> <table border="1"> <thead> <tr> <th>ITEM</th> <th>SPEKIFIKASI MINIMUM</th> </tr> </thead> <tbody> <tr> <td>Device Type</td> <td>Ergonomic Vertical Computer Mouse</td> </tr> <tr> <td>Connection Type</td> <td>2.4 GHz Wireless USB receiver</td> </tr> <tr> <td>Sensor Type</td> <td>Optical sensor</td> </tr> <tr> <td>DPI Resolution</td> <td>Adjustable DPI (typically 800 / 1200 / 1600 DPI)</td> </tr> <tr> <td>Buttons</td> <td>6 buttons (Left, Right, Scroll, DPI switch, Forward, Back)</td> </tr> <tr> <td>Ergonomic Design</td> <td>Vertical hand-shake grip position</td> </tr> <tr> <td>Scroll Wheel</td> <td>Anti-slip rubberized wheel</td> </tr> <tr> <td>Compatibility</td> <td>Windows / macOS / Linux basic support</td> </tr> <tr> <td>Plug & Play</td> <td>Yes (no driver required)</td> </tr> <tr> <td>Wireless Range</td> <td>±8–10 meters</td> </tr> <tr> <td>Receiver Type</td> <td>Nano USB receiver (2.4GHz RF)</td> </tr> </tbody> </table>	ITEM	SPEKIFIKASI MINIMUM	Device Type	Ergonomic Vertical Computer Mouse	Connection Type	2.4 GHz Wireless USB receiver	Sensor Type	Optical sensor	DPI Resolution	Adjustable DPI (typically 800 / 1200 / 1600 DPI)	Buttons	6 buttons (Left, Right, Scroll, DPI switch, Forward, Back)	Ergonomic Design	Vertical hand-shake grip position	Scroll Wheel	Anti-slip rubberized wheel	Compatibility	Windows / macOS / Linux basic support	Plug & Play	Yes (no driver required)	Wireless Range	±8–10 meters	Receiver Type	Nano USB receiver (2.4GHz RF)											
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G.6	<p>Zebra DS2278 (SR7U2100PRW) cordless 2D Barcode Scanner atau yang setara</p> <table border="1" data-bbox="300 224 960 817"> <thead> <tr> <th>ITEM</th> <th>SPESIFIKASI MINIMUM</th> </tr> </thead> <tbody> <tr> <td>Jenis Peranti</td> <td>Cordless 2D Imager Barcode Scanner</td> </tr> <tr> <td>Scanning Technology</td> <td>Area Imaging (digital imager sensor)</td> </tr> <tr> <td>Supported Codes</td> <td>1D & 2D barcode (QR Code, DataMatrix, PDF417, Code128, EAN, dll)</td> </tr> <tr> <td>Connectivity</td> <td>Bluetooth wireless</td> </tr> <tr> <td>Wireless Range</td> <td>±10 m (typical indoor)</td> </tr> <tr> <td>Interface Support</td> <td>USB HID, USB COM, RS232 (via cradle)</td> </tr> <tr> <td>Aiming Pattern</td> <td>LED aimer</td> </tr> <tr> <td>Trigger Mode</td> <td>Manual trigger & presentation mode</td> </tr> <tr> <td>Motion Tolerance</td> <td>±13 cm/sec</td> </tr> <tr> <td>Drop Resistance</td> <td>Drop resistance up to approximately 1.5 m onto a concrete surface</td> </tr> <tr> <td>Sealing Rating</td> <td>IP42</td> </tr> <tr> <td>Battery Type</td> <td>Rechargeable Li-ion</td> </tr> <tr> <td>Battery Capacity</td> <td>±2400 mAh</td> </tr> <tr> <td>Scan Per Charge</td> <td>±14,000 scans</td> </tr> <tr> <td>Charging Method</td> <td>Charging cradle (base station)</td> </tr> <tr> <td>Charging Time</td> <td>±4 hour full</td> </tr> <tr> <td>Indicator</td> <td>LED + beep + vibration feedback</td> </tr> </tbody> </table>	ITEM	SPESIFIKASI MINIMUM	Jenis Peranti	Cordless 2D Imager Barcode Scanner	Scanning Technology	Area Imaging (digital imager sensor)	Supported Codes	1D & 2D barcode (QR Code, DataMatrix, PDF417, Code128, EAN, dll)	Connectivity	Bluetooth wireless	Wireless Range	±10 m (typical indoor)	Interface Support	USB HID, USB COM, RS232 (via cradle)	Aiming Pattern	LED aimer	Trigger Mode	Manual trigger & presentation mode	Motion Tolerance	±13 cm/sec	Drop Resistance	Drop resistance up to approximately 1.5 m onto a concrete surface	Sealing Rating	IP42	Battery Type	Rechargeable Li-ion	Battery Capacity	±2400 mAh	Scan Per Charge	±14,000 scans	Charging Method	Charging cradle (base station)	Charging Time	±4 hour full	Indicator	LED + beep + vibration feedback			
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