

**IB 2022-15: PROCUREMENT OF VARIOUS NETWORKING  
EQUIPMENT AND PERIPHERALS**

**SECTION VII-  
TECHNICAL  
SPECIFICATIONS**

## TECHNICAL SPECIFICATIONS

ITEM	SPECIFICATION	STATEMENT OF COMPLIANCE
		<p><i>[Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.]</i></p>
<p><b>A.</b></p>	<p><b>ONE LOT SUPPLY AND DELIVERY OF SEMI-EXPENDABLE NETWORK EQUIPMENT</b></p>	
<p><b>1</b></p>	<p>wireless Access Point, black, ARM 32bit Architecture, Quad Core 716MHz CPU, RouterOS L4, 256MB RAM, 128MB NAND storage, Approximately 100,000 hours at 25C MTBF, -40°C to 70°C tested ambient temperature, IPsec hardware acceleration, 300Mbit/s Wireless 2.4GHz Max data rate, Dual 2.4GHz wireless chains, 802.11b/g/n, 3dBi Antenna gain for 2.4GHz, Wi-Fi 4 wireless 2.4GHz generation, 867Mbit/s Wireless 5GHz Max data rate, Dual 5GHz wireless chains, 802.11a/n/ac, 5.5dBi Antenna gain for 5GHz, Wi-Fi 5 wireless 5GHz generation, AC1200, 5x Gigabit Ethernet ports, Passive Poe-out on Ether5 port at 0.5A Max total out, 1x USB type A port, 12-28V DC jack Input Voltage, 30W max power consumption, Passive cooling, Passive PoE In, 1828V PoE in Input Voltage, CE/FCC/IC/EAC/ROHS Certifications, IP20, 24V/1.5A power adapter, Base leg, wall mount set, HGO indoor antenna kit. 12month warranty on materials and workmanship under normal use and service by the manufacturer, except in case of damage caused by mechanical, electrical or other accidental or intended damages caused by improper use or due to wind, rain, fire or other acts of nature. On-call/next-business day support must be provided by local supplier/dealer</p>	

ITEM	SPECIFICATION	STATEMENT OF COMPLIANCE
2	<p>Wireless Access Point, Dual Core, ARM 32bit Architecture, Quad Core 488-896 (auto)MHz CPU, RouterOS L4, 128MB RAM, 16MB FLASH storage, 40°C to 70°C tested ambient temperature, IPsec hardware acceleration, 300Mbit/s Wireless 2.4GHz Max data rate, Dual 2.4GHz wireless chains, 802.11b/g/n, 2.5dBi Antenna gain for 2.4GHz, Wi-Fi 4 wireless 2.4GHz generation, 867Mbit/s Wireless 5GHz Max data rate, Dual 5GHz wireless chains, 802.11a/n/ac, 2.5dBi Antenna gain for 5GHz, Wi-Fi 5 wireless 5GHz generation, AC1200, 2x Gigabit Ethernet ports, 10-57V DC jack Input Voltage, 10W max power consumption, Passive cooling, 802.3af/at PoE In, 18-57V PoE in Input Voltage, CE/FCC/IC/EAC/ROHS Certifications, IP54, PCB temperature monitor, Voltage monitor, 24V/0.8A power adapter, Gigabit PoE Injector, desktop stand, wall mounting kit. 12-month warranty on materials and workmanship under normal use and service by the manufacturer, except in case of damage caused by mechanical, electrical or other accidental or intended damages caused by improper use or due to wind, rain, fire or other acts of nature. Oncall/next-business day support must be provided by local supplier/dealer.</p>	
3	<p>Wireless Access Point, ARM 32bit Architecture, Quad Core 716MHz CPU, RouterOS L4, 128MB RAM, 16MB FLASH storage, Approximately 100,000 hours at 25C MTBF, -40°C to 70°C tested ambient temperature, 300Mbit/s Wireless 2.4GHz Max data rate, Dual 2.4GHz wireless chains, 802.11b/g/n, 6dBi Antenna gain for 2.4GHz, Wi-Fi 4 wireless 2.4GHz generation, 867Mbit/s Wireless 5GHz Max data rate, Dual 5GHz wireless chains, 802.11a/n/ac, 5.5dBi Antenna gain for 5GHz, Wi-Fi 5 wireless 5GHz generation, AC1200, 2x Gigabit Ethernet ports, 24W max power consumption, Passive cooling, 802.3af/at PoE In, 18-57V PoE in Input Voltage, Passive PoE-out on Ether2 up to 57V, CE/FCC/IC/EAC/ROHS Certifications, 24V/1.2A power adapter, Gigabit PoE Injector, ceiling mounting kit. 12-month warranty on materials and workmanship under normal use and service by the manufacturer, except in case of damage caused by mechanical, electrical or other accidental or intended damages caused by improper use or due to wind, rain, fire or other acts of nature. On-call/next-business day support must</p>	
4	<p>Fiber-optic Transceiver Module, Dual LC UPC Connector, 1G/10G/25G Data rate, 10km distance, SFP/SFP+/SFP28 format, Single Mode, 1310nm wavelength.</p>	
5	<p>Fiber-optic Transceiver Module, Dual LC UPC Connector, 1G/10G Data rate, 300m distance, SFP+ format, Multi Mode, 850nm wavelength.</p>	

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6	Power Adapter + Power plug (for MikroTik netPower 16P), 110/220V Input Voltage, 48V Output Voltage, 1.46A Current, 70 Watts	
B.	<b>ONE LOT SUPPLY AND DELIVERY OF NETWORK EQUIPMENT AND PERIPHERALS</b>	
7	Router, ARM 64bit Architecture, 4 cores x 350-1400MHz CPU, 7x 10/100/1000 Ethernet port, 1x 2.5G Ethernet port, 1x SFP+ port, 1GB RAM, 1GB NAND storage, RouterOS L5, Approximately 200,000 hours at 25C MTBF, -40°C to 60°C tested ambient temperature, 1x USB 3.0 type A slot, RJ45 Serial console port, 24-57V DC jack Input Voltage, 20W max power consumption, Passive cooling, 802.3af/at PoE In, 24-57V PoE in Input Voltage, CPU temperature monitor, CE/EAC/ROHS Certifications. 12-month warranty on materials and workmanship under normal use and service by the manufacturer, except in case of damage caused by mechanical, electrical or other accidental or intended damages caused by improper use or due to wind, rain, fire or other acts of nature. On-call/next-business day support must be provided by local supplier/dealer.	
8	Layer 3 Smart Switch, 1U rackmount, MIPSBE Architecture, 650MHz CPU, RouterOS L5, 64MB RAM, 16MB FLASH storage, Approximately 200,000 hours at 25C MTBF, -20°C to 60°C tested ambient temperature, Dual 100-240V AC Input Voltage, 69W Maximum power consumption, 3x Fans, 1x Ethernet port, 24x SFP+ ports, 2x 40G QSPF+ ports, RJ45 Serial port, 1x USB type A port, CEA/EAC/ROHS Certifications, IP20, Rack ears and screws, 2x IEC cords. 12-month warranty on materials and workmanship under normal use and service by the manufacturer, except in case of damage caused by mechanical, electrical or other accidental or intended damages caused by improper use or due to wind, rain, fire or other acts of nature. On-call/next-business day support must be provided by local supplier/dealer.	
9	Layer 3 Smart Switch, ARM 32bit Architecture, 800MHz Dual CPU cores, RouterOS L5, 512MB RAM, 16MB FLASH storage, Approximately 200,000 hours at 25C MTBF, -40°C to 70°C tested ambient temperature, 12-57V DC jack input Voltage, 23W Maximum power consumption, Passive Cooling, 802.3af/at PoE in, 18-57V PoE in Input Voltage, 1 Gigabit Ethernet port, 8x SFP+ ports, RS232 Serial port, CPU temperature monitor, 1U rackmount case. CEA/EAC/ROHS Certifications, IP20, Rack ears and screws, 24V/1.2A power adapter. 12-month warranty on materials and workmanship under normal use and service by the manufacturer, except in case of damage caused by mechanical, electrical or other accidental or intended damages caused by improper use or due to wind, rain, fire or other acts of nature. On-call/next-business day support must be provided by local supplier/dealer.	

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10	<p>Layer 3 Smart Switch, ARM 32bit Architecture, 800MHz CPU core, RouterOS L5, 512MB RAM, 16MB FLASH storage, Approximately 200,000 hours at 25C MTBF, -40°C to 70°C tested ambient temperature, Dual 12-57V DC jack input Voltage, 18W Maximum power consumption, Passive Cooling, 802.3af/at PoE in, 12-57V PoE in Input Voltage, 1 Gigabit Ethernet port, 4x SFP+ ports, CPU temperature monitor, CEA/EAC/ROHS Certifications, IP20, 24V/0.8A power adapter. 12-month warranty on materials and workmanship under normal use and service by the manufacturer, except in case of damage caused by mechanical, electrical or other accidental or intended damages caused by improper use or due to wind, rain, fire or other acts of nature. On-call/next-business day support must be provided by local supplier/dealer.</p>	
11	<p>Layer 3 Smart Switch, MIPSBE Architecture, 650MHz CPU core, RouterOS L5, 64MB RAM, 16MB FLASH storage, Approximately 200,000 hours at 25C MTBF, -20°C to 60°C tested ambient temperature, Dual 100-240 AC inputs, 60W Maximum power consumption, 3x Fans, 1x Ethernet port, 48x Gigabit Ethernet port, 4x SFP+ ports, 2x 40G QSPF+ ports, 1x RJ45 Serial Console port, CPU temperature monitor, PCB temperature monitor, Voltage monitor, 1U rackmount case. CEA/EAC/ROHS Certifications, IP20, Rackmount ears and screws, Cable management brackets, 2x IEC cords. 12-month warranty on materials and workmanship under normal use and service by the manufacturer, except in case of damage caused by mechanical, electrical or other accidental or intended damages caused by improper use or due to wind, rain, fire or other acts of nature. On-call/next-business day support must be provided by local supplier/dealer.</p>	
12	<p>Layer 3 Smart Switch, ARM 32bit Architecture, 800MHz CPU core, RouterOS L5, 512MB RAM, 16MB FLASH storage, Approximately 200,000 hours at 25C MTBF, -20°C to 60°C tested ambient temperature, 100-240V AC Input Voltage, 494W Maximum power consumption, 2x Fans, 802.3af/at Ether1-Ether24, 10000mA Max out per port output, 20A Max total output, 24x Gigabit Ethernet ports, 4x SFP+ ports, RJ45 Serial Console port, CPU temperature monitor, PCB temperature monitor, Mode button, 1U rackmount case. CEA/EAC/ROHS Certifications, IP00, Rack ears and screws, IEC cord. 12-month warranty on materials and workmanship under normal use and service by the manufacturer, except in case of damage caused by mechanical, electrical or other accidental or intended damages caused by improper use or due to wind, rain, fire or other acts of nature. On-call/next-business day support must be provided by</p>	



ITEM	SPECIFICATION	STATEMENT OF COMPLIANCE
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Signature Over Printed Name

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Date