



JADUAL PEMATUHAN SPESIFIKASI TEKNIKAL

NO. TENDER:	
TAJUK TENDER:	PEROLEHAN PEMBEKALAN, PEMASANGAN DAN KONFIGURASI SERTA PENYELENGGARAAN PERKAKASAN NETWORK SWITCH DAN SISTEM RANGKAIAN MSN

ITEM	SPESIFIKASI TENDER	PEMATUHAN SPESIFIKASI		JIKA TIDAK, SILA NYATAKAN SPESIFIKASI BARU DAN ALASAN KETIDAKPATUHAN	JENAMA & MODEL
		YA	TIDAK		
1.0.	PERKHIDMATAN PENGURUSAN RANGKAIAN BERWAYAR CORE SWITCH				
1.1.	Jenama: Sila nyatakan				
1.2.	Model: Sila nyatakan				
1.3.	The proposed core switch is add-on to existing infrastructure to form Active-Active High Availability				
1.4.	The switch must be rack-mountable in standard network rack with form factor of 1RU				
1.5.	The switch must come with 24 x combo ports (24 x 1GbE RJ-45 and 24 x 1GbE SFP)				
1.6.	The switch can support up to 4 x 10GbE SFP+ port				
1.7.	The switch can support up to 2 x 40G QSFP+ port				
1.8.	The switch must be managed by a single network monitoring system (Please elaborate)				
1.9.	The switch must be of the same brand for ease of management				
1.10.	The switch must have up to 288 Gbps switching capacity and 214 Mpps forwarding rate				
1.11.	The switch must be equipped with 2GB of memory with 256MB of flash memory				
1.12.	The switch must support stacking bandwidth of up to 160Gbps				
1.13.	The switch must support up to 64K MAC addresses				



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1.14.	The switch must support 4K VLANs				
1.15.	The switch must function as a core switch with full Layer 3 and Layer 2 features and capabilities				
1.16.	The switch must come with dual hot-swappable power supplies				
1.17.	The switch must support Virtualization Technology to allow multiple switches to be managed as a single virtual chassis. The virtualization technology shall simplify networking operation by eliminating the complexity of Spanning Tree or VRRP				
1.18.	The switch must support link aggregation across stack				
1.19.	The switch must be able to support ring topology with sub 50ms failover for high availability				
1.20.	The switch must support Multicast				
1.21.	The switch must support IPv6				
1.22.	The switch must support Quality of Service (QoS)				
1.23.	The switch must come with security features to control users that can login to the switch				
1.24.	The switch must support DHCP server				
1.25.	The switch must support built-in Management Framework to provide the network with backup, recovery and firmware upgrade management without the need for additional hardware modules or software (Please elaborate and provide documentations)				
1.26.	The switch shall be equipped with the necessary transceivers for complete network connectivity				



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	PERKHIDMATAN PENGURUSAN RANGKAIAN BERWAYAR				
	SERVER FARM SWITCH				
2.0.	Jenama: Sila nyatakan				
2.1.	Model: Sila nyatakan				
2.2.	The switch is to establish connection from distribution switch to core switch				
2.3.	The switch must be rack-mountable in standard network rack with form factor of 1RU				
2.4.	The switch must come with 24 x 1GbE RJ-45 ports				
2.5.	The switch must come with 4 x 10GbE SFP + ports				
2.6.	The switch must be managed by a single network monitoring system (Please elaborate)				
2.7.	The switch must be of the same brand for ease of management				
2.8.	The switch must have up to 128 Gbps switching capacity and 95.2 Mpps forwarding rate				
2.9.	The switch must be equipped with 1GB of memory with 256MB of NAND flash memory				
2.10.	The switch must support stacking bandwidth of up to 40Gbps				
2.11.	The switch must support up to 16K MAC addresses				
2.12.	The switch must support 4K VLANs				
2.13.	The switch must support both Layer 3 and Layer 2 features				
2.14.	The switch must be able to support ring topology with sub 50ms failover for high availability				
2.15.	The switch must support Multicast				
2.16.	The switch must support IPv6				
2.17.					



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2.18.	The switch must support Quality of Service (QoS)				
2.19.	The switch must come with security features to control users that can login to the switch				
2.20.	The switch must support DHCP server				
2.21.	The switch shall be equipped with the complete accessories to be integrated into the network				



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	PERKHIDMATAN PENGURUSAN RANGKAIAN BERWAYAR				
3.0.	DISTRIBUTION SWITCH				
3.1.	Jenama: Sila nyatakan				
3.2.	Model: Sila nyatakan				
3.3.	The switch is to establish connection from distribution switch to core switch				
3.4.	The switch must be rack-mountable in standard network rack with form factor of 1RU				
3.5.	The switch must come with 24 x 1GbE RJ-45 ports				
3.6.	The switch must come with 4 x 10GbE SFP+ ports				
3.7.	The switch must be managed by a single network monitoring system (Please elaborate)				
3.8.	The switch must be of the same brand for ease of management				
3.9.	The switch must have up to 128 Gbps switching capacity and 95.2 Mpps forwarding rate				
3.10.	The switch must be equipped with 1GB of memory with 256MB of NAND flash memory				
3.11.	The switch must support stacking bandwidth of up to 40Gbps				
3.12.	The switch must support up to 16K MAC addresses				
3.13.	The switch must support 4K VLANs				
3.14.	The switch must support both Layer 3 and Layer 2 features				
3.15.	The switch must be able to support ring topology with sub 50ms failover for high availability				
3.16.	The switch must support Multicast				
3.17.	The switch must support IPv6				



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3.18.	The switch must support Quality of Service (QoS)				
3.19.	The switch must come with security features to control users that can login to the switch				
3.20.	The switch must support DHCP server				
3.21.	The switch shall be equipped with the complete accessories to be integrated into the network				



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	PERKHIDMATAN PENGURUSAN RANGKAIAN BERWAYAR				
4.0.	ACCESS SWITCH				
4.1.	Jenama: Please specify				
4.2.	Model: Please specify				
4.3.	The proposed switch must be rack-mountable				
4.4.	The proposed switch must be 1U form factor				
4.5.	The proposed switch comes with 24 1GbE RJ45 port				
4.6.	The proposed switch comes with 4 port 1GbE SFP port				
4.7.	The proposed switch must support PoE on all ports based on IEEE 802.3af. The switch must be able to provide up to 15.4W of power per port to PoE devices				
4.8.	The proposed switch must support PoE+ based on IEEE 802.3at. The switch must be able to provide up to 30W of power per port to PoE devices				
4.9.	The proposed switch must support PoE power budget of 370W				
4.10.	The proposed switch must be managed by a single network management system				
4.11.	The proposed switch must be of the same brand for ease of management				
4.12.	The proposed switch must support up to 56Gbps switching capacity and up to 41.7Mpps forwarding rate				
4.13.	The proposed switch must be equipped with 256MB DDR SDRAM and 64MB of flash memory				
4.14.	The proposed switch must be able to support up to 16K of MAC address entries				



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4.15.	The proposed switch must be able to support up to 2048 VLANs				
4.16.	The proposed switch must support VLAN on all ports				
4.17.	The proposed switch must support Voice VLAN				
4.18.	The proposed switch must be able to support ring topology with sub 50ms failover for high availability				
4.19.	The proposed switch must support diagnostic for copper cables to be able to know the status or faults that might exists in either the connected cable or in its terminations				
4.20.	The proposed switch shall have a maximum power consumption of not more than 26W				
4.21.	The proposed switch must be able to support Multicast				
4.22.	The proposed switch must be able to support IPv6				
4.23.	The proposed switch must be able to support Quality of Service (QoS)				
4.24.	The proposed switch must support built-in Management Framework to provide the network with backup, recovery and firmware upgrade management without the need of any additional hardware modules or software (please elaborate and provide documentations)				
4.25.	The switch shall be equipped with the complete accessories to be integrated into the network				



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	PERKHIDMATAN PENGURUSAN RANGKAIAN BERWAYAR				
5.0.	INSTALLATION, MAINTENANCE AND WARRANTY				
5.1.	The switch must come with 5 years warranty				
5.2.	The switch must come with Next Business Day hardware replacement valid throughout the contract				
5.3.	The switch must come with software updates throughout the contract period				
5.4.	The installation services shall be done by certified Engineer. Engineer certificate to be included.				
5.5.	Workshops conducted by product principal shall be available upon request to enable knowledge transfer				
5.6.	Bidder shall provide Training hands-on lab certification. Please include details of certified training.				
5.7.	The switch shall come with 24 x 7 email, phone and remote support				