

Summary Specification	
BIL. SEBUTHARGA/QUOTATION REF.:	UBD/Q/187/2026 (ICTC) - [G]
TARIKH DIKLANKAN :	<u>15 September 2026 [Selasa]</u>
TARIKH TUTUP :	<u>22 September 2026 [Selasa]</u> JAM: 2 Petang
DOCUMENT FEE :	B\$ 10.00

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TITLE :		URGENT INSTALLATION, CONFIGURATION, DEPLOYMENT, TESTING, COMMISSIONING, INTEGRATION, AND MAINTENANCE OF WIRELESS SYSTEM FOR CHANCELLOR HALL, UNIVERSITI BRUNEI DARUSSALAM
No.	Quantity	SPECIFICATIONS
1	1 Lot	Configuration WLC Controller Model Aruba 9240 x 2 unit (HA Configuration) (hardware provide by ICTC) Scope of Services 2.1 Assessment and Planning • Review existing wireless network architecture. • Gather network requirements and design parameters. • Verify hardware, software, licensing, and network readiness. • Confirm IP addressing, VLANs, routing, DNS, NTP, and authentication requirements. • Develop implementation and rollback plans. 2.2 Aruba 9240 Controller Installation • Rack mounting verification (if required). • Configure management interfaces. • Configure controller hostnames and system parameters. • Upgrade controllers to the approved ArubaOS version. • Verify licenses and controller health. 2.3 High Availability (HA) Configuration • Configure Active-Standby HA pair. • Configure redundancy and synchronization settings. • Configure heartbeat and failover mechanisms. • Verify stateful synchronization between controllers. • Validate controller failover and recovery operations. • Document HA status and operational procedures.

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No.	Quantity	SPECIFICATIONS
		2.4 Network Integration • Configure VLANs and trunk interfaces. • Configure Layer 3 connectivity. • Configure gateway and routing parameters. • Configure NTP, DNS, and system services. • Configure management access and administrative accounts. 2.5 Wireless Configuration • Create wireless profiles and SSIDs. • Configure WLAN security settings. • Configure RF parameters and radio profiles. • Configure AP groups and AP provisioning. • Configure user roles and access policies
2	1 Lot	Aruba CX 6300 Layer 3 and layer 2 6200 Switch Configuration (hardware provide by ICTC 6300x1 6200x3) 2.1. Objective Configure the Aruba CX 6300 switch to provide Layer 3 switching and routing services, enabling inter-VLAN communication, network segmentation, and connectivity to upstream network devices and service Base Switch Configuration • Configure system hostname and management settings. • Configure management IP address. • Configure DNS, NTP, and SNMP settings (if required). • Configure administrative user accounts and access controls. • Configure SSH and secure management access.VLAN Configuration
		• Create required VLANs. • Assign VLAN names according to customer standards. • Configure access ports for end devices. • Configure trunk ports for uplinks and downstream switches. • Verify VLAN membership and connectivity. 2.2 Layer 3 Configuration • Configure Switch Virtual Interfaces (SVIs). • Assign gateway IP addresses for each VLAN. • Enable inter-VLAN routing. • Configure routed ports where required. • Configure static routes and default routes. • Verify routing table and network reachability. 2.3 Network Integration • Integrate switch with existing core, distribution, or firewall infrastructure. • Configure uplink connectivity. • Verify communication with upstream routers/firewalls. • Configure route advertisement requirements

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3.	1 lot	Firewall Configuration and Implementation (hardware provide by ICTC) 3.1 Assessment and Planning • Review existing network topology and security requirements. • Gather IP addressing, VLAN, routing, and security policy requirements. • Identify network zones and traffic flow requirements. • Review current firewall configuration (if applicable). • Develop implementation, migration, and rollback plans. 3.2 Base Firewall Configuration • Configure hostname and system settings. • Configure management interface and IP addressing. • Configure administrator accounts and role-based access. • Configure secure management access (SSH, HTTPS). • Configure NTP, DNS, logging, and system services. • Upgrade firmware to approved version (if required). 3.3 Interface and Zone Configuration • Configure physical and logical interfaces. • Configure VLAN interfaces and sub-interfaces. • Configure security zones (e.g., LAN, Server, DMZ, Guest, WAN). • Configure interface addressing and network assignments. • Verify interface connectivity.
		3.4 Routing Configuration • Configure static routes. • Configure default route to Internet service provider or upstream router. • Configure dynamic routing protocols (OSPF/BGP) if required. • Verify routing functionality and reachability. 3.5 Security Policy Configuration • Create firewall security policies based on approved requirements. • Configure access rules between network zones. • Configure inbound and outbound traffic filtering. • Implement least-privilege access principles. • Configure application-based policies (if supported). 3.6 Network Address Translation (NAT) • Configure source NAT (SNAT/PAT). • Configure destination NAT (DNAT/Port Forwarding). • Configure NAT exemptions where required. • Validate Internet access and published services.
4.	1 lot	Implement and configure Layer 3 routing services on the Cisco Catalyst 9407 core switch to enable connectivity between internal networks, data center services, firewalls, and external network segments while maintaining network stability and security. (hardware provide by ICTC) Layer 3 Interface Configuration • Configure Switch Virtual Interfaces (SVIs) for new or existing VLANs. • Assign IP addresses and subnet masks to routing interfaces. • Configure routed physical interfaces where required. • Enable Layer 3 functionality on designated interfaces. • Verify interface operational status. Static Routing • Configure static routes for specified destination networks. • Configure default route to firewall, WAN router, or upstream gateway. • Validate route installation and forwarding behavior.

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5	1 lot	Deploy, configure, and integrate Aruba AP-505 wireless access points to provide secure, reliable, and high-performance wireless connectivity for users, devices, and applications within the customer environment. (Hardware provide by ICTC x30) 5.1 Access Point Installation • Install Aruba AP-505 access points at designated locations. • Connect APs to network switches and PoE infrastructure. • Verify power and network connectivity. • Label APs according to customer naming standards. • Confirm physical installation status. Access Point Provisioning • Discover and register APs to the wireless controller or cloud management platform. • Assign AP names, groups, and locations. • Configure AP operating parameters. • Upgrade AP firmware where required. • Verify AP health and operational status. 5.2 Wireless Network Configuration • Configure corporate SSIDs. • Configure guest SSIDs (if required). • Configure VLAN mappings for wireless networks. • Configure WLAN profiles and radio settings. • Configure RF optimization parameters. • Configure bandwidth and QoS settings where required.
		5.3 Security Configuration • Configure WPA2/WPA3 security settings. • Configure 802.1X authentication integration. • Configure RADIUS authentication services. • Configure guest access controls (if required). • Configure user roles and access policies. • Apply wireless security best practices.
6		WARRANTY Warranty must be at least 20 years