

بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ



د افغانستان اسلامي جمهوریت
د ولسي جرگې غړي

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د افغانستان اسلامي جمهوریت: (IUL)491-CDS3/491/2024/68

د افغانستان اسلامي جمهوریت: 15 ټ 2024

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<p>دوره‌های آموزشی در زمینه‌های زیر در سال ۱۳۹۸ برگزار خواهد شد:</p>		<p>19. دوره‌های آموزشی روانشناسی و مشاوره خانواده</p>
<p>دوره‌های آموزشی در زمینه‌های زیر در سال ۱۳۹۸ برگزار خواهد شد:</p>	<p>19.2</p>	
<p>دوره‌های آموزشی در زمینه‌های زیر در سال ۱۳۹۸ برگزار خواهد شد:</p>	<p>20.1</p>	<p>20. دوره‌های آموزشی مشاوره و روانشناسی خانواده</p>
<p>دوره‌های آموزشی در زمینه‌های زیر در سال ۱۳۹۸ برگزار خواهد شد:</p>	<p>21.1</p>	<p>21.</p>
<p>دوره‌های آموزشی در زمینه‌های زیر در سال ۱۳۹۸ برگزار خواهد شد:</p>	<p>21.2</p>	
<p>(ب) دوره‌های آموزشی تخصصی</p>		
<p>دوره‌های آموزشی در زمینه‌های زیر در سال ۱۳۹۸ برگزار خواهد شد:</p>	<p>22.1</p>	<p>22. دوره‌های آموزشی تخصصی</p>
<p>دوره‌های آموزشی در زمینه‌های زیر در سال ۱۳۹۸ برگزار خواهد شد:</p>	<p>22.2</p>	
<p>دوره‌های آموزشی در زمینه‌های زیر در سال ۱۳۹۸ برگزار خواهد شد:</p>	<p>23.1</p>	<p>23. دوره‌های آموزشی تخصصی</p>
<p>دوره‌های آموزشی در زمینه‌های زیر در سال ۱۳۹۸ برگزار خواهد شد:</p>	<p>23.2</p>	
<p>دوره‌های آموزشی در زمینه‌های زیر در سال ۱۳۹۸ برگزار خواهد شد:</p>	<p>23.3</p>	
<p>دوره‌های آموزشی در زمینه‌های زیر در سال ۱۳۹۸ برگزار خواهد شد:</p>	<p>23.4</p>	

<p>23.5</p> <p>23.5</p>	<p>23.5</p>	<p>23.5</p>
<p>24.1</p> <p>24.1</p>	<p>24.1</p>	<p>24.1</p>
<p>24.2</p> <p>24.2</p>	<p>24.2</p>	<p>24.2</p>
<p>25.1</p> <p>25.1</p>	<p>25.1</p>	<p>25.1</p>
<p>25.2</p> <p>25.2</p>	<p>25.2</p>	<p>25.2</p>
<p>25.3</p> <p>25.3</p>	<p>25.3</p>	<p>25.3</p>

ՏՆՈՒՄ 3

ԱՐՎԱՏՈՒԿ ԴՆՏ ԴԱԿՐՄԱՆ ԻՐ ԴՐՈՍ ԴԱԿՐՄԱՆ

<p>"ՎՍԻՆՎԱԿԱՆ ԳՈՐԾՆԵՐՈՒ" ՆԱԾԻ ԾԵՆՈՒՄ ԴՐՈՍ, ԱՎՎԱՏՈՒԿ ԴՆՏԻ ԿԱՆԻՍՏՈՒՄ ԵՎ ԿՐԻՍՏՈՒՄ ԿՐԱԿԵՆԻ ԿՈՄԻՏԵՆԵՐԸ:</p>	<p>27.1</p>	<p>1. ԾԵՆՈՒՄ</p>
<p>"ՎՍԻՆՎԱԿԱՆ ԴՈՒՄ ԴՈՒՄ ԳՐԱԿՈՒ" ՆԱԾԻ ԾԵՆՈՒՄ ԴՐՈՍ, ԱՎՎԱՏՈՒԿ ԴՆՏԻ ԿԱՆԻՍՏՈՒՄ ԻՐ ԿՐԻՍՏՈՒՄ ԵՎ ԿՐԱԿԵՆԻ ԿՈՄԻՏԵՆԵՐԸ:</p>	<p>27.2</p>	
<p>"ՎՍԻՆՎԱԿԱՆ" ՆԱԾԻ ԾԵՆՈՒՄ ԴՐՈՍ ԵՎ ԿՐԻՍՏՈՒՄ ԿՐԱԿԵՆԻ ԿՈՄԻՏԵՆԵՐԸ ԵՎ ԿՐԱԿԵՆԻ ԿՈՄԻՏԵՆԵՐԸ:</p>	<p>27.3</p>	
<p>"ՎՍԻՆՎԱԿԱՆ ԴՆ" ՆԱԾԻ ԾԵՆՈՒՄ ԴՐՈՍ ԵՎ ԿՐԻՍՏՈՒՄ ԿՐԱԿԵՆԻ ԿՈՄԻՏԵՆԵՐԸ ԵՎ ԿՐԱԿԵՆԻ ԿՈՄԻՏԵՆԵՐԸ:</p>	<p>27.4</p>	
<p>"ԱՐՎԱՏՈՒԿ" ՆԱԾԻ ԾԵՆՈՒՄ ԴՐՈՍ, ՎՍԻՆՎԱԿԱՆ ԵՎ ԿՐԻՍՏՈՒՄ ԿՐԱԿԵՆԻ ԿՈՄԻՏԵՆԵՐԸ ԵՎ ԿՐԱԿԵՆԻ ԿՈՄԻՏԵՆԵՐԸ:</p>	<p>27.5</p>	
<p>Ի ԱՐՎԱՏՈՒԿ ԴՆՏԻ ԿԱՆԻՍՏՈՒՄ ԵՎ ԿՐԱԿԵՆԻ ԿՈՄԻՏԵՆԵՐԸ ԵՎ ԿՐԱԿԵՆԻ ԿՈՄԻՏԵՆԵՐԸ:</p>	<p>28.1</p>	<p>2. ԿՐԱԿԵՆԻ ԿՈՄԻՏԵՆԵՐԸ</p>
<p>ԱՐՎԱՏՈՒԿ ԴՆՏԻ ԿԱՆԻՍՏՈՒՄ ԵՎ ԿՐԱԿԵՆԻ ԿՈՄԻՏԵՆԵՐԸ ԵՎ ԿՐԱԿԵՆԻ ԿՈՄԻՏԵՆԵՐԸ:</p>	<p>28.2</p>	
<p>Ի ԱՐՎԱՏՈՒԿ ԴՆՏԻ ԿԱՆԻՍՏՈՒՄ ԵՎ ԿՐԱԿԵՆԻ ԿՈՄԻՏԵՆԵՐԸ ԵՎ ԿՐԱԿԵՆԻ ԿՈՄԻՏԵՆԵՐԸ:</p>	<p>28.3</p>	
<p>Ի ԱՐՎԱՏՈՒԿ ԴՆՏԻ ԿԱՆԻՍՏՈՒՄ ԵՎ ԿՐԱԿԵՆԻ ԿՈՄԻՏԵՆԵՐԸ ԵՎ ԿՐԱԿԵՆԻ ԿՈՄԻՏԵՆԵՐԸ:</p>	<p>29.1</p>	<p>3. ԿՐԱԿԵՆԻ ԿՈՄԻՏԵՆԵՐԸ ԵՎ ԿՐԱԿԵՆԻ ԿՈՄԻՏԵՆԵՐԸ</p>
<p>ԿՐԱԿԵՆԻ ԿՈՄԻՏԵՆԵՐԸ ԵՎ ԿՐԱԿԵՆԻ ԿՈՄԻՏԵՆԵՐԸ:</p>	<p>30.1</p>	<p>4. ԿՐԱԿԵՆԻ ԿՈՄԻՏԵՆԵՐԸ ԵՎ ԿՐԱԿԵՆԻ ԿՈՄԻՏԵՆԵՐԸ</p>

<p>$CP*0.0025*LD =$ փորձարկման արագություն</p> <p>CP (նախնայող արագություն): նախնայող արագության փոփոխությունը</p> <p>LD (արագություն): նախնայող արագության փոփոխությունը</p> <p>Տրոստեր</p>		
<p>Տրոստերի արագությունը փոփոխվում է 32.3%:</p> <p>Տրոստերի արագությունը փոփոխվում է 32.3%:</p> <p>Տրոստերի արագությունը փոփոխվում է 32.3%:</p> <p>Տրոստերի արագությունը փոփոխվում է 32.3%:</p>	32.3	
<p>Տրոստերի արագությունը փոփոխվում է 15%:</p> <p>Տրոստերի արագությունը փոփոխվում է 15%:</p>	32.4	
<p>Տրոստերի արագությունը փոփոխվում է 33.1%:</p> <p>Տրոստերի արագությունը փոփոխվում է 33.1%:</p> <p>Տրոստերի արագությունը փոփոխվում է 33.1%:</p>	33.1	<p>7. Տրոստերի արագությունը փոփոխվում է 33.1%:</p>
<p>Տրոստերի արագությունը փոփոխվում է 33.2%:</p> <p>Տրոստերի արագությունը փոփոխվում է 33.2%:</p> <p>Տրոստերի արագությունը փոփոխվում է 33.2%:</p> <p>Տրոստերի արագությունը փոփոխվում է 33.2%:</p>	33.2	
<p>Տրոստերի արագությունը փոփոխվում է 34.1%:</p> <p>Տրոստերի արագությունը փոփոխվում է 34.1%:</p> <p>Տրոստերի արագությունը փոփոխվում է 34.1%:</p> <p>Տրոստերի արագությունը փոփոխվում է 34.1%:</p>	34.1	<p>8. Տրոստերի արագությունը փոփոխվում է 34.1%:</p>
<p>Տրոստերի արագությունը փոփոխվում է 35.1%:</p> <p>Տրոստերի արագությունը փոփոխվում է 35.1%:</p> <p>Տրոստերի արագությունը փոփոխվում է 35.1%:</p>	35.1	<p>9. Տրոստերի արագությունը փոփոխվում է 35.1%:</p>

<p>36.1 ՀԱՅԱՍՏԱՆԻ ՀԱՆՐԱՊԵՏՈՒԹՅԱՆ ԱՌՄԱՆ ԿՐԹԱԿԱՆԱԿՆԵՐԻ ԿՐԹԱԿԱՆԱԿՆԵՐԻ ԿՐԹԱԿԱՆԱԿՆԵՐԻ</p>	<p>36.1</p>	<p>10. ՀԱՅԱՍՏԱՆԻ ՀԱՆՐԱՊԵՏՈՒԹՅԱՆ ԱՌՄԱՆ ԿՐԹԱԿԱՆԱԿՆԵՐԻ ԿՐԹԱԿԱՆԱԿՆԵՐԻ ԿՐԹԱԿԱՆԱԿՆԵՐԻ</p>
<p>37.1 ՀԱՅԱՍՏԱՆԻ ՀԱՆՐԱՊԵՏՈՒԹՅԱՆ ԱՌՄԱՆ ԿՐԹԱԿԱՆԱԿՆԵՐԻ ԿՐԹԱԿԱՆԱԿՆԵՐԻ ԿՐԹԱԿԱՆԱԿՆԵՐԻ</p>	<p>37.1</p>	<p>11. ՀԱՅԱՍՏԱՆԻ ՀԱՆՐԱՊԵՏՈՒԹՅԱՆ ԱՌՄԱՆ ԿՐԹԱԿԱՆԱԿՆԵՐԻ ԿՐԹԱԿԱՆԱԿՆԵՐԻ ԿՐԹԱԿԱՆԱԿՆԵՐԻ</p>
<p>38.1 ՀԱՅԱՍՏԱՆԻ ՀԱՆՐԱՊԵՏՈՒԹՅԱՆ ԱՌՄԱՆ ԿՐԹԱԿԱՆԱԿՆԵՐԻ ԿՐԹԱԿԱՆԱԿՆԵՐԻ ԿՐԹԱԿԱՆԱԿՆԵՐԻ</p>	<p>38.1</p>	<p>12. ՀԱՅԱՍՏԱՆԻ ՀԱՆՐԱՊԵՏՈՒԹՅԱՆ ԱՌՄԱՆ ԿՐԹԱԿԱՆԱԿՆԵՐԻ ԿՐԹԱԿԱՆԱԿՆԵՐԻ ԿՐԹԱԿԱՆԱԿՆԵՐԻ</p>
<p>38.2 ՀԱՅԱՍՏԱՆԻ ՀԱՆՐԱՊԵՏՈՒԹՅԱՆ ԱՌՄԱՆ ԿՐԹԱԿԱՆԱԿՆԵՐԻ ԿՐԹԱԿԱՆԱԿՆԵՐԻ ԿՐԹԱԿԱՆԱԿՆԵՐԻ</p>	<p>38.2</p>	

بخښنه 2

په ښارونو کې

				1
2. په ښارونو کې د ښارونو د ښارونو				
				1.1
				1.2
3. په ښارونو کې د ښارونو د ښارونو				
				2.1
				2.2
5. په ښارونو کې د ښارونو د ښارونو				
ښارونو	ښارونو	ښارونو	ښارونو	ښارونو
Supply, Installation and Configuration of Micro Data Center Server Information (1 Bundle)				
			02	Hyperconverged Infrastructure
			01	Backup Appliance
			02	Core Network Switch
			01	Next Generation Firewall Appliance
			01	Micro Data Centre System
			10	Managed Network Switch
			10	Indoor Wireless Access Point
Servers and Systems Software Licenses and Configuration				
				VMWare vSphere 8 Standard
				Windows Server 2022 Standard
				Manage Engine
				Endpoint Security Software (Anti-Virus)
				ښارونو:

	<ul style="list-style-type: none"> - The system should include individual VM-centric policy-based backup and recovery. - The system should have global management that is directly integrated with VMware vCenter. - The system should include integrated cloud based Intelligent Management and Reporting Platform. - The Cloud-Based Platform Should be able to provide analytics across Multiple Systems. - The Cloud-Based platform should have high level dashboards showing data efficiency, performance, and backup data efficiency per cluster, per VM, and per host.
HCI License	<ul style="list-style-type: none"> - Should include required HCI Licenses for all Nodes covering all CPUs for the proposed system. - The proposed HCI Licenses Should Include 3-Year Production Support from the Manufacturer.
Official OEM Certified Training	<p>Official OEM Certified Instructor Led Classroom Training on System Administration for Two (02) Technical Person from the Ministry</p> <ul style="list-style-type: none"> - Should Include Official Courseware. - Should be delivered by the OEM Approved Training Center. <p>Should Include All Expenses Including Traveling, Lodging and Course Fees.</p>
Installation, Configuration and On-Site Training	<ul style="list-style-type: none"> - Installation and Configuration Service Should be by Vendor Certified Engineers Only - The Installation Team Should Consist of Minimum TWO (02) OEM Certified Engineers for the Proposed HCI Solution - The Engineers Should be Available On-site for the Duration of the Installation - Installation of the HCI Nodes: Unpacking the Server, inspecting it for Damage and Installing it According to Product Specification. - Physical Connection of the Product to a LAN or WAN - Perform Maintenance Related Tasked such as Firmware Updates and Management Interface Configuration - Install and Configure HCI Software Stack - Install and Configure VMware vCenter with Integrated HCI Management Software - Configure Integrated Cloud Management Platform - Configure the Cluster in N+1 HA Configuration - Configure all relevant VMware Networking Stack Ensuring High Availability and Maximum Performance - Configure In-built Backup and Recovery for Local Backup - Configuration Documentation and on the Job Training
Warranty and Support	<ul style="list-style-type: none"> - 3-Years Parts, 3-Year Labor, 3-Year Onsite Support with NBD Response - Government Business Hours Availability and a 2-Hours Response Time - 24x7 Access to Online Self-Serve and Self-Solve Capabilities, 24x7 Incident Logging - 3-Years Local Technical Support by OEM Certified Engineers

2. Backup Appliance (Qty: 01)

Processor	1 x Intel Xeon-Silver 4310 2.1GHz 12-core Processor
Memory	2 x 32GB (1x32GB) Dual Rank x4 DDR4-3200 Registered Memory
Capacity Tier	8 x 4TB SATA 6G LFF HDD
RAID Controller	1 x Hardware RAID controller with 16 Internal Lanes, NVMe/SAS, 12G
Network Adapter	1 x Ethernet 10Gb 2-Port BASE-T Adapter
Power Supply	2 x 800W Platinum Hot Plug Low Halogen Power Supply
Mounting	1 x Bezel Kit and Rack Mount Rail Kit
Form Factor	2U Rack Mountable Server with 8 x LFF Drive/Slots
Management License	1 x Enterprise Server Remote Management License
System Architecture	The Appliance Should Supports on Demand Scale-up and Scale-out Architecture
Backup Performance	Virtual Backup Appliance Should have a Minimum of 4TB/hr Backup Performance
Appliance Licensing	<ul style="list-style-type: none"> - Virtual Backup Appliance Should Include High-Performance software-defined Virtual Backup Appliance License - Virtual Backup Appliance Should Support and Include License for Data at Rest and Data in Flight Encryption - Virtual Backup Appliance Should Include at Minimum 22TB Perpetual Capacity License - Virtual Backup Appliance Shall Include Perpetual Deduplication and Compression License
Backup Software License Subscription	Veeam Data Platform Essentials - 1 Year Subscription (10 VM License) – to Ministry's Preferred Email Address
Installation, Configuration and On-Site Training	<ul style="list-style-type: none"> - Should be Deployed by Vendor Certified Engineers Only - The Installation Team Should Consist of Minimum ONE (1) OEM Certified Professional Engineer in the Proposed Virtual Backup Appliance and ONE (1) OEM Certified Engineer for Veeam Backup - The Allocated Engineer(s) should be Available On-site for the Duration of the Installation - Plan and Design External and Long-term Backup and Recovery Policies as per Industry Best Practices - Configure Backup and Recovery Policies - Configure Virtual Backup Appliance for Long-term Archiving - Isolate and Secure Backup Infrastructure - Demonstrate and Verify Backup and Recovery - Configuration Documentation and on the Job Training
Warranty and Support	<ul style="list-style-type: none"> - 3-Years Parts, 3-Year Labor, 3-Year Onsite Support with NBD Response - Government Business Hours Availability and a 2-Hours Response Time - 24x7 Access to Online Self-Serve and Self-Solve Capabilities, 24x7 Incident Logging - 3-Years Local Technical Support by OEM Certified Engineers

3. Core Network Switch (Qty: 02)

Interfaces	<ul style="list-style-type: none"> - 12-Port 10 Gigabit Ethernet - 12-Port 10 Gigabit SFP+ Managed Switch - 1 x GE Management Port
Performance	<ul style="list-style-type: none"> - The Device Should Support Minimum 480Gbps Switching Capacity - The Device Should Support Minimum 240mpps Throughput. - The Device Should Have Minimum 3MB Packet Buffers - The Device Should Have Minimum 256MB Flash and 512MB DRAM
Layer 2 Features and Protocols	<ul style="list-style-type: none"> - STP, RTSP, MSTP, PVST, IEEE 802.3ad LAG - 802.1Q VLAN, Voice VLAN - DHCP Relay, IGMP
Layer 3 Features and Protocols	<ul style="list-style-type: none"> - IPv4 and IPv6 static routing, 128 IP interfaces - CIDR, RIP v2, Policy-Based Routing, DHCP Server
Security and Management	<ul style="list-style-type: none"> - SSH v1 and v2, SCP, SSL, IEEE 802.1X, Web Based Authentication - Secure Web Management and Configuration, Mobile App - SNMP v1, 2c and 3 - Dual Images for Resilient Firmware Upgrades
Form Factor	1 RU, Rack Mounting Accessories Should be Included.
Connectivity	8 x 10GE SFP+ SR Transceiver Module with 3M Fiber Optic Cable Should be included
Installation, Configuration and On-Site Training	<ul style="list-style-type: none"> - Should be Deployed by Vendor Certified Engineers Only - The Installation Team Should Consist of Minimum ONE (1) OEM Certified Professional Engineer for the Proposed Switch or Cisco CCNA or CCNP Certified Engineer - The Allocated Engineer(s) Should be Available On-site for the Duration of the Installation - Design High Available Data Center Core Network - Configure Storage Core Network - Configure VMware Core Network - Configure Management Network - Configure Voice Network - Configure Access Control, Wifi and Surveillance Network - Configure iSCSI Network Optimization Across all Relevant Network Layers - Configuration Documentation and on the Job Training
Warranty and Support	<ul style="list-style-type: none"> - 3-Years Parts, 3-Year Labor, 3-Year Onsite Support with NBD Response - Government Business Hours Availability and a 2-Hours Response Time - 3-Years Local Technical Support by OEM Certified Engineers

4. Next Generation Firewall Appliance (Qty: 01)

Interfaces	<ul style="list-style-type: none"> - 18 x 1 Gig RJ-45 ports - 8 x 1 Gig SFP - 4 x 10 Gig SFP+ ports
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	<ul style="list-style-type: none"> - 1 x Console Port
Performance	<ul style="list-style-type: none"> - 27Gbps firewall Throughput - 5Gbps IPS Throughput - 3.5Gbps NGFW Throughput - 3Gbps Threat Protection Throughput - 2Gbps SSL VPN throughput - 3 million Concurrent TCP Sessions
Form Factor	1RU, rack mounting accessories should be included
Power Supply Features	The device should have Redundant Power Supply Unit
Features	<ul style="list-style-type: none"> - Should be an Enterprise Grade Firewall from a Manufacturer Listed as Leader in the 2022 or 2023 Gartner Magic Quadrant for Network Firewalls. Should submit relevant Gartner’s Magic Quadrant Report. - Should be able to perform the Security Functionalities of Web Filter, Application Control, IPS, and Antivirus. - Should Support Policy-Based Routing, Application Aware Routing, Performance Based Routing. - Should Identify Thousands of Applications Inside Network Traffic for Deep Inspection and Granular Policy Enforcement. - Should Supports SSL VPN - Should protect against Malware, Exploits, and Malicious Websites in both Encrypted and Non-Encrypted Traffic. - Should Support Blocking and Controlling Web Access based on user or user groups across URL’s and domains
Security License Subscription	<ul style="list-style-type: none"> - 1-Year Security Subscription - Web Filtering, Malware Protection, IPS, Antispam, Antivirus, Botnet, Virus Outbreak Protection, Application Control, Sandbox - 1-Year Cloud Management, network analytics with 1-Year Log Retention Licenses - 1-Year Support Subscription: 24x7 Support, Hardware Replacement, Firmware Upgrades - Subscription should be active in Ministry’s Preferred Email Address
Installation, Configuration and On-Site Training	<ul style="list-style-type: none"> - Should be Deployed by Vendor Certified Engineers Only - The Installation Team Should Consist of Minimum TWO (2) OEM Certified Engineer for the proposed Network Security Appliance - The Allocated Engineer(s) should be available onsite for the duration of the Installation - Design appropriate LAN,WAN, and DMZ Security Policies. - Configure Application Control Policies - Configure AV and Web Filtering Policies - Configure Antispam Filtering - Configure Malware Protection Policies - Configure IPS Policies - Configure Traffic Shaping and ISP WAN Load Balancing - Network Segmentation and Configure Appropriate Security Policy per Segment - Configure Remote Access Connectivity Policies

	<ul style="list-style-type: none"> - Configure DNS Filtering Policies - Configure Security Event Logging and Monitoring - Configure Security Event Alert Notification - Configure Scheduled Industry Standard Security Reporting Policies - Configuration Documentation and on the Job Training
Warranty and Support	<ul style="list-style-type: none"> - 1-Years Parts, 1-Year Labor, 1-Year Onsite Support with NBD Response - Government Business Hours Availability and a 2-Hours Response Time - 1-Years Local Technical Support by OEM Certified Engineers

5. Micro Data Centre System (Qty: 01)

The system should be self-contained, portable, and deeply integrated solution.

Overall Parameters	<ul style="list-style-type: none"> - The Power Input is: 220-240V/1Phase/50-60Hz. - The Available Space is 29U, Available Power is 6kVA and Available Cooling Capacity is 3.9kW.
Cabinet System	<ul style="list-style-type: none"> - Dimension: 600mm(width) * 1200mm(depth) * 42U height. - The cabinet system shall be IP55 water/dust protection rated. - The cabinet is fully closed to protect equipments from dust and harsh environment. - The front door is reinforced glass type and adopts insulation material to prevent water condensate. - The rear door of the cabinet is double open steel type. - The front door and rear door of the cabinet are protected with integrated access controller system. - Shall include Key type mechanical lock for emergency unlocking requirement.
Access Control System	<ul style="list-style-type: none"> - Should be designed with access reader, access controller, and access management software. - Access type, supporting RFID card, PIN password, and Fingerprint methods. - Should be integrated into local management system, and can be managed from local display
Power System	<ul style="list-style-type: none"> - The UPS capacity is 6kVA with power input is 220-240V/1Ph/50Hz-60Hz - The UPS mounting type is rack mount, and height is 2U. - Should include power management module working as power distribution, protection, metering, and management. - Smart full height PDU with 12xC13 and 4 x C19 ports with digital current meter and network monitoring

	<ul style="list-style-type: none"> - Should include rack mounted battery module with Lithium Iron Phosphate type batteries of 204V/25AH. - The UPS system should provide a minimum 1hour runtime assuming 3kW datacenter load.
Precision Cooling System	<ul style="list-style-type: none"> - The cooling shall be a top mount cooling system, and total cooling capacity is 3.5kW. - The cooling power input shall be 220-240V/50Hz-60Hz - Packaged design easy for installation, and service - The compressor system is inverter type. - The cooling unit should be with refrigerant charged. - The evaporator fan is EC fan type. - Should include built in with water evaporation kit which eliminates drainage water connection.
Monitoring System	<ul style="list-style-type: none"> - The display of the monitoring system is 10" touch type, IP55 dust/water protection industrial display. - The monitoring is a door mounted on the front door. - Shall include monitoring sensors for temperature, humidity, smoke, water leaking, door status. - Shall support UPS management and monitoring. - Shall support cooling system management and monitoring. - Monitoring function shall support calculation of power usage. - Monitoring system supports integration of access control system. - The monitoring system is designed with a remote reporting portal. - Should include 4G SMS module for alarm notification sending
Fire Extinguishing System	<ul style="list-style-type: none"> - Rack mount, and height is 3U. - The extinguisher gas should be Novec1230, with volume 1.0kg. - The extinguishing trigger method is temperature/smoke sensing and automatic release of fire fighting gas.
Components	<p>It should include all the necessary components; UPS, battery, power management, precision cooling, cabinet, and monitoring to form a complete standalone solution for critical IT equipment.</p>
Installation, Configuration, and Training	<p>Planning:</p> <ul style="list-style-type: none"> - Planning session to define the objectives and requirements for the Micro Data Center Rack installation. - Assess the physical space and layout for optimal placement of the micro data center rack components.

	<ul style="list-style-type: none"> - Define power and cooling requirements based on the critical IT equipment specifications. - Create a comprehensive project plan outlining key milestones and timelines. <p>Rack Installation:</p> <ul style="list-style-type: none"> - Physically install the micro data center rack, ensuring it complies with industry standards and safety regulations. - Mount and secure the components, including UPS, battery, power management, precision cooling, and cabinet, within the rack. - Connect and organize power and network cables to ensure a clean and efficient setup. - Verify proper grounding and electrical connections. <p>Power Management:</p> <ul style="list-style-type: none"> - Configure the UPS and battery systems to provide reliable and uninterrupted power supply to the critical IT equipment. - Implement power management solutions to optimize energy usage and ensure system efficiency. - Should include any required civil and electrical work. - Conduct tests to validate the effectiveness of the power management setup. <p>Precision Cooling:</p> <ul style="list-style-type: none"> - Install and configure precision cooling systems to maintain optimal temperature levels within the micro data center rack. - Should include any required civil and electrical work. - Verify the functionality of the precision cooling system under various load conditions. <p>Monitoring Setup:</p> <ul style="list-style-type: none"> - Configure alerts and notifications for potential issues related to power, cooling, and overall system health. - Configure on-device monitoring and operation. - Configure remote monitoring and operation. <p>System Verification and Testing:</p> <ul style="list-style-type: none"> - Perform thorough verification tests to ensure the reliability and functionality of the complete micro data center rack solution. - Validate UPS, battery, power management, precision cooling, and monitoring system functionalities. <p>Documentation and Training:</p> <ul style="list-style-type: none"> - Provide comprehensive documentation detailing the configuration, setup, and maintenance procedures.
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	<ul style="list-style-type: none"> - Conduct training sessions for the client's IT team on the day-to-day management and troubleshooting. - Offer post-installation support to address any issues or questions that may arise after the implementation. - Provide a point of contact for ongoing maintenance and support needs.
Warranty and Support	<ul style="list-style-type: none"> - 3-Years Parts, 3-Year Labor, 3-Year Onsite Support with NBD Response - Government Business Hours Availability and a 2-Hours Response Time - 3-Years Local Technical Support by OEM Certified Engineers

6. Managed Network Switch - 48Port (Qty: 10)

General	<ul style="list-style-type: none"> - Vendor should be listed as leader in Gartner Wired and & Wireless magic quadrant in recently published report - Should be 19" Rack Mountable, mounting accessories should be included
Interfaces	<ul style="list-style-type: none"> - 48 RJ-45 10/100/1000 PoE Ports - Minimum 8 ports should be IEEE 802.3bt Class 6 PoE Ports - Minimum 40 ports should be IEEE802.3at Class 4 PoE Ports - 2 SFP+ 10GbE ports - 2 RJ-45 10GBASE-T ports - 1 x GE Management Port
Performance	<ul style="list-style-type: none"> - 176Gbps Switching Capacity - 130mpps Throughput - 16K MAC Address Table Size - The device should have minimum 3MB Packet Buffers - The device shall have minimum 256MB flash and 512MB DRAM - Up to 500W of PoE to power
Layer 2 and Layer 3 Features and Protocols	<ul style="list-style-type: none"> - STP, RTSP, MSTP, PVST, IEEE 802.3ad LAG - 802.1Q VLAN, Voice VLAN - DHCP Relay, IGMP - IPv4 and IPv6 static routing, 128 IP interfaces - CIDR, RIP v2, Policy-Based Routing, DHCP Server - MAC address table size of minimum 16K entries - Shall support Jumbo frames up to 9216 bytes - Internet Group Management Protocol (IGMP) - IEEE 802.1AB Link Layer Discovery Protocol (LLDP) - Layer 3 Features without additional licensing - Dynamic Host Configuration Protocol (DHCP) - Link Aggregation Control Protocol (LACP) - Broadcast, Unicast and Multicast storm control
QoS and Security Features	<ul style="list-style-type: none"> - Access Control Lists for filtering traffic to prevent unauthorized users from accessing the network.

	<ul style="list-style-type: none"> - Powerful QoS feature supporting Strict Priority Queuing (SP) and DiffServ - IEEE 802.1X Port Based Network Access Control - Port security, Broadcast Control
Management	<ul style="list-style-type: none"> - SSH v1 and v2, SCP, SSL, IEEE 802.1X, Web based authentication. - Configure through cloud management portal; Web browser; Mobile app, SNMP Manager - SNMPv1, v2, and v3 - FTP and TFTP support. - RADIUS or TACACS+ for switch security access administration - Network Time Protocol (NTP) or equivalent support - Dual Flash images for secondary operating system
Mobile App	<ul style="list-style-type: none"> - Manage up to 50 switches - Remotely manage and control a single site or multi-site network - Quick view of topology, devices, and alerts with the intuitive dashboard - Prioritize or limit network access and usage by applications and users - Ability to configure security setting ACLs and creating separate guest and employee networks - Should not have any additional licensing or subscription fees
Installation, Configuration, and Training	<p>Installation:</p> <ul style="list-style-type: none"> - Installation and configuration service should be done by vendor certified engineers only - The installation team should consist of minimum ONE (1) OEM certified professional engineer for the proposed switch or Cisco CCNA or CCNP Certified engineer - The engineers shall be available onsite for the duration of the installation. - Rack mounting of all switches in designated racks within the premises. - All network cabling of switches will be provisioned by the client. <p>Configuration:</p> <ul style="list-style-type: none"> - Configuration of VLANs to segregate network traffic and enhance security and performance. - Configuration of link aggregation (LACP) where applicable for increased bandwidth and redundancy. - Setup of Quality of Service (QoS) policies to prioritize network traffic and optimize performance. - Implementation of security features including port security, MAC address filtering, and access control lists (ACLs). <p>Documentation and Training:</p> <ul style="list-style-type: none"> - Provision of detailed documentation outlining network topology, device configurations, VLAN assignments, and security policies. - On-the-job training for technical staff on basic network operations, monitoring, and troubleshooting procedures.

Warranty and Support	<ul style="list-style-type: none"> - 3-Years Parts, 3-Year Labor, 3-Year Onsite Support with NBD Response - Government Business Hours Availability and a 2-Hours Response Time - 3-Years Local Technical Support by OEM Certified Engineers
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7. Indoor Wireless Access Point (Qty: 10)

General	<ul style="list-style-type: none"> - Fast 802.11ax, 2X2:2 - Wi-Fi CERTIFIED 6 - Smart Mesh Wi-Fi support - Built-in Wi-Fi router/gateway functionality - Integrated Bluetooth - Cloud portal/Web and mobile app for setup and management - Secure Guest Wi-Fi - Application classification, control and visibility - Should have an installed Trusted Platform Module (TPM) for secure storage of credentials - The AP its software stack should not have any recurring subscription or licensing fees - Vendor should be listed as leader in Gartner Wired and & Wireless magic quadrant in recently published report
WiFi Radio	<ul style="list-style-type: none"> - Dual radio for simultaneous dual-band operation - 5 GHz 802.11ax 2x2 MIMO - 2.4 GHz 802.11ax 2x2 MU-MIMO - 1.2Gbps data rate (5Ghz) - 574Mpbps data rate (2.4Ghz)
Power	<ul style="list-style-type: none"> - Power over Ethernet (POE): 802.3af (class 3) - DC power (12V)
Interfaces	<ul style="list-style-type: none"> - Uplink Gigabit Ethernet port, with PoE-in support (802.3af) - DC power connector (12V) - Bluetooth Low Energy (BLE) radio - Kensington security slot
Antennas	Down-tilt omni-directional antennas for 2x2 MIMO
Mounting	Should include wall mounting accessories
Mobile App	<ul style="list-style-type: none"> - Manage up to 50 access points. - Remotely manage and control a single site or multi-site network. - Ability to create customized guest Wi-Fi experiences using your business logo, authentication method, and Wi-Fi rules. - Quick view of topology, devices, and alerts with the intuitive dashboard - Prioritize or limit network access and usage by applications and users. - Ability to configure security setting ACLs and creating separate guest and employee networks. - Protection against compromised login credentials with Two-Factor Authentication - Should not have any additional licensing or subscription fees
Certifications	<ul style="list-style-type: none"> - UL 2043, EN 60601-1-1, EN 60601-1-2

	<ul style="list-style-type: none"> - Wi-Fi Alliance certified (WFA) 802.11ax with (Wi-Fi 6), WPA2, WPA3
Installation, Configuration, and Training	<p>Installation:</p> <ul style="list-style-type: none"> - Installation and configuration service shall be by vendor certified engineers only. - The installation team should consist of a minimum of one OEM certified professional engineer for the proposed switch or Cisco CCNA or CCNP Certified engineer. - The engineers shall be available onsite for the duration of the installation. - Mounting of all wireless Aps in designated locations within the premises. - All network cabling of wireless Aps will be provisioned by the client. <p>Configuration:</p> <ul style="list-style-type: none"> - Integration of access points with centralized management portal for seamless roaming. - Configuration of wireless networks with appropriate security measures (WPA2-Enterprise, guest networks, etc.). <p>Documentation and Training:</p> <ul style="list-style-type: none"> - Provision of detailed documentation outlining network topology, device configurations, VLAN assignments, and security policies. - On-the-job training for technical staff on basic network operations, monitoring, and troubleshooting procedures.
Warranty and Support	<ul style="list-style-type: none"> - 3-Years Parts, 3-Year Labor, 3-Year Onsite Support with NBD Response - Government Business Hours Availability and a 2-Hours Response Time - 3-Years Local Technical Support by OEM Certified Engineers

8. Servers and Systems Software Licenses and Configurations

8.1 – VMWare vSphere 8 Standard

License Name	VMware vSphere 8 Standard for all Cores of HCI Cluster and Backup Appliance
Subscription Period	Annually 1 Year Upfront (To the E-Mail Provided by Ministry)
Support Period	1 Year
Authorization	Must be an Authorized VMware Re-seller
Installation, Configuration, Training for VMware Virtualization	<p>Planning:</p> <ul style="list-style-type: none"> - Collaborate with the client to plan the installation and configuration of VMware vSphere for the HCI cluster. - Define virtualization requirements and objectives. <p>Deployment:</p> <ul style="list-style-type: none"> - Installation and configuration service shall be by vendor certified engineers only.

	<ul style="list-style-type: none"> - The installation team should consist of minimum ONE (1) OEM certified professional engineer in VMware datacenter products. - The engineers should be available onsite for the duration of the installation. - Install and configure VMware vSphere on the HCI nodes. - Install and configure VMware vCenter server. - Install and configure VMware multipathing. - Install and configure VMware switching and network segregation. - Install and vCenter server backup. <p>Installation Verification Tests and Training:</p> <ul style="list-style-type: none"> - Validate the successful installation of VMware vSphere and vCenter server. - Ensure virtual machine (VM) creation and management. - Train the client's IT team on managing VMs within the vSphere environment. - Provide documentation on VMware vSphere configuration and usage.
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8.2 – Windows Server 2022 Standard

License Name	60 x Windows Server 2022 Standard - 2 Core License
Subscription Period	Annually 1 Year Upfront (To the E-Mail Provided by Ministry)
Support Period	1 Year
Installation, Configuration, Training for VMware Virtualization	<p>Planning:</p> <ul style="list-style-type: none"> - Define the objectives and requirements for Windows Server installation. - Define roles and responsibilities for server administration within the Microsoft Windows environment. - Create a detailed project plan outlining key milestones, timelines, and dependencies. <p>Microsoft Windows Domain Controller Installation and Configuration:</p> <ul style="list-style-type: none"> - Install and configure Microsoft Windows Server to act as a domain controller. - Set up Active Directory services, including user accounts, group policies, and security settings. - Configure DNS and DHCP services for seamless network communication. - Implement best practices for domain controller security and resilience. <p>Microsoft File Server Installation and Configuration:</p> <ul style="list-style-type: none"> - Deploy and configure Microsoft Windows Server as a dedicated file server.

	<ul style="list-style-type: none"> - Create and organize file shares based on the client's data storage requirements. - Implement access controls and permissions to ensure data security. - Enable file server auditing and monitoring for compliance and security purposes. <p>Microsoft Windows Server VMs Configuration for other Operational Servers:</p> <ul style="list-style-type: none"> - Create Windows Server virtual machines (VMs) for operational use, considering resource allocation and performance optimization. - Configure VM settings, including networking, storage, and integration services. <p>Installation Verification Tests and Training:</p> <ul style="list-style-type: none"> - Validate the successful installation and configuration of Microsoft Windows Domain Controller and File Server. - Conduct tests to verify the functionality of domain services, file sharing, and operational servers. - Provide comprehensive training for the client's IT team on the management and administration of Windows Servers. <p>Documentation:</p> <ul style="list-style-type: none"> - Prepare detailed documentation outlining the steps taken during the installation and configuration processes. - Provide user manuals, guides, and best practice documents for Windows Server administration. - Offer post-implementation support to address any issues or questions that may arise after the Windows Server installation. - Provide guidance on routine maintenance tasks, updates, and patches. - Establish a point of contact for ongoing support needs.
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8.3 – ManageEngine

Software Name	ManageEngine
Software Edition	ADAudit Plus Professional Edition - (Recent Release) ** Annual 1 Year Upfront Subscription for 2 Domain Controllers
Add-on Softwares	- File Servers - (Recent Release) ** Annual 1 Year Upfront Subscription for 2 File Servers - Windows Workstations - (Recent Release) ** Annual 1 Year Upfront Subscription for 150 Workstations
Support Period	1 Year

<p>Authorization</p>	<p>Must be an Authorized ManageEngine Re-seller</p>
<p>Installation, Configuration, Training for VMware Virtualization</p>	<p>Planning:</p> <ul style="list-style-type: none"> - Pre-requisites check: Should verify that the system requirements and pre-requisites for ADAudit Plus & File Servers with Workstations are met before starting the installation process. <p>Installation and Configuration:</p> <ul style="list-style-type: none"> - Configure dedicated VM(s) to install ADAudit Plus and all relevant components. - Configure storage LUN provisioning for the VM - Installed and configure any required application server and the database server. - Install and configure web server with required SSL configuration. - Configure the domain, domain controllers, Windows member servers, ADFS, LDAP, FIM, group policy, removable storage, Printer, and Sysmon. - Configure the file servers to ensure they are compatible with ADAudit Plus. - Import historic EVT/EVTX files into ADAudit Plus. - Configure automatic device configuration in ADAudit Plus. - Deploy agents on the required systems and perform any necessary agent-level registry changes. - Configure log filtering to ensure that only relevant logs are collected. - Configure custom reports and alerts and create schedules for regular reports to be generated. - Configure security hardening and privacy settings in ADAudit Plus, including SSL configuration and single sign-on configuration. - Configure role-based access control in ADAudit Plus to ensure that only authorized users have access to the system. - Configure archive settings in ADAudit Plus to ensure that data is stored in compliance with auditing requirement. - Configure File Sever Audit and Windows Workstations Remotely for the required systems. <p>Training and Documentation:</p> <ul style="list-style-type: none"> - Perform user acceptance testing to ensure that the system is functioning as expected. - Provide documentation for the installation, configuration, and usage of ADAudit Plus. - Provide ADAudit Plus Instructor led training for 01 technical persons.

	<ul style="list-style-type: none"> - Perform a post-implementation health check to ensure that the system is functioning as expected after the installation.
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8.4 – Endpoint Security Software (Anti-Virus)

Software Edition	<p>Recent Release of the Proposed Endpoint Security Software (Anti-Virus)</p> <p>** Annual 1 Year Upfront Subscription for 10 Servers and 200 Clients</p>
Support Period	1 Year
Authorization	Must be an Authorized Re-seller of the Proposed Endpoint Security Software (Anti-Virus)
Software Specifications	<p>Antivirus Protection:</p> <ul style="list-style-type: none"> - Real-time scanning and protection against known and unknown malware, viruses, trojans, and other threats. - Behavioral analysis to detect and block fileless attacks. - Automatic updates and virus signature updates. <p>Device Control:</p> <ul style="list-style-type: none"> - Ability to control access to devices such as USB drives and external hard drives. - Whitelisting and blacklisting of devices. - Centralized management of device policies. <p>Web Protection:</p> <ul style="list-style-type: none"> - Protection against web-borne threats, including malicious websites and drive-by downloads. - URL filtering and blocking of malicious sites. - Behavioral analysis to detect and block fileless attacks. - Centralized management of web policies. <p>Centralized Management:</p> <ul style="list-style-type: none"> - Ability to manage all devices from a central console. - Management console can be either secure cloud console or on-premise console - Real-time monitoring of device status and security events. - Role-based access control. <p>Virtualization Security:</p> <ul style="list-style-type: none"> - Protection for virtualized environments. - Centralized management of virtualization policies. <p>Advanced Threat Detection:</p> <ul style="list-style-type: none"> - Detection and prevention of advanced threats, including zero-day attacks and file-less malware. - Behavioral analysis to detect and block fileless attacks. - Machine learning and artificial intelligence to identify and block advanced threats.

	<p>Endpoint Detection & Response (EDR):</p> <ul style="list-style-type: none"> - Ability to detect and respond to advanced threats, including threat hunting, incident investigation, and automated response. - Fileless Malware Detection: Ability to detect and prevent fileless malware attacks. - Root Cause Analysis: Ability to identify the root cause of security incidents. - Threat Hunting: Ability to proactively search for and identify security threats. - Incident Investigation: Ability to investigate security incidents. - Automated Response: Ability to automatically respond to security incidents. - Live Response: Ability to take real-time actions on endpoints to contain and remediate security incidents. - Indicators of Compromise (IOC): Ability to identify indicators of compromise and track them across endpoints. - User Behavior Analysis: Ability to identify anomalies in user behavior that could indicate a security threat. - Network Traffic Analysis: Ability to analyze network traffic for indicators of compromise. - Application Control: Ability to control the behavior of applications on endpoints to prevent malicious activity. - Vulnerability Assessment: Ability to identify vulnerabilities on endpoints and prioritize remediation. - Forensics: Ability to collect and analyze forensic data to aid in incident response and investigations.
<p>Installation, Configuration, Training for Endpoint Security Software</p>	<p>Planning:</p> <ul style="list-style-type: none"> - Identify security requirements and objectives for endpoint protection. - Assess the existing IT infrastructure to ensure compatibility with the chosen endpoint security solution. - Define security policies, user access controls, and threat response procedures. - Develop a detailed project plan outlining key milestones, timelines, and dependencies. <p>Endpoint Security Software Installation:</p> <ul style="list-style-type: none"> - Install the selected endpoint security centralized management platform as a dedicated VM - Install the chosen endpoint security software agents on all designated endpoints (workstations, servers, and mobile devices).

	<ul style="list-style-type: none"> - Configure role-based access control for administrators. - Verify that the installation adheres to system requirements and industry best practices. - Ensure proper integration with existing security infrastructure and tools. <p>Configuration of Endpoint Security Policies:</p> <ul style="list-style-type: none"> - Define and configure security policies based on industry best practices and the client's specific security requirements. - Set up real-time scanning, intrusion detection/prevention, and other relevant security features. - Configure policies and rules for the proposed advanced endpoint security product. - Configure the EDR features to monitor all endpoints and servers, including setting up the incident response process <p>Testing and Verification:</p> <ul style="list-style-type: none"> - Conduct comprehensive testing to verify the successful installation and configuration of the endpoint security solution. - Validate the effectiveness of security policies and real-time threat detection. <p>Administrator Training:</p> <ul style="list-style-type: none"> - Train the client's IT team or designated administrators on the management and monitoring of the endpoint security solution. - Provide documentation on the configuration and maintenance of the endpoint security solution. <p>Documentation:</p> <ul style="list-style-type: none"> - Document the installation and configuration processes, including settings and configurations for future reference. - Provide detailed user manuals and guides for administrators. - Offer post-implementation support to address any issues or questions that may arise after the endpoint security solution installation. - Provide guidance on routine maintenance tasks, updates, and system upgrades. - Establish a point of contact for ongoing support needs.
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9. Mandatory Requirement for the mentioned Products and Services

<p>Technical Specification</p> <ul style="list-style-type: none"> - Proposed product and services must meet the technical specification provided 	<p>Mandatory</p>
<p>Trained/Qualified staff (Team Composition)</p> <ul style="list-style-type: none"> - Minimum certified team requirement for proposed products and services as per the technical specification 	<p>Mandatory</p>
<p>Warranty and Support</p> <ul style="list-style-type: none"> - Minimum Warranty and Support period mentioned for proposed products and services as per the technical specification 	<p>Mandatory</p>