Ministry of Economic Development, Transport and Trade
Male', Republic of Maldives

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SHOPPING FOR SUPPLY, INSTALLATION, AND COMMISSIONING OF NSW LOG RETENTION STORAGE, AND ANALYSIS UPGRADE, INCLUDING TECHNICAL SUPPORT AND PROFESSIONAL SERVICES

for

Maldives Innovation & Digital Company Limited (MINDCo)

ANNEX1-REQUEST FOR QUOTATION (RFQ)

Source of Funding: ADB Loan 3794 – MLD and ADB Grant 0646 – MLD

RFQ Ref: RFQ/2026/006

South Asia Subregional Economic Cooperation
National Single Window Project

SECTION A

SCOPE OF WORK

Under the National Single Window Platform digital initiative, Maldives Innovation and Digital Company (MINDCo) seek to strengthen its enterprise ICT security and operational resilience through the implementation of a centralized enterprise log storage and retention platform. Accordingly, this Request for Proposal (RFP) invites qualified and experienced Systems Integrators to submit proposals for the **SUPPLY, INSTALLATION, AND COMMISSIONING OF NSW LOG RETENTION STORAGE, AND ANALYSIS UPGRADE, INCLUDING TECHNICAL SUPPORT AND PROFESSIONAL SERVICES.**

The scope of work shall include the design, deployment, configuration, integration, optimization, testing, documentation, knowledge transfer, and post-implementation support of an enterprise-grade log storage platform capable of supporting centralized log retention and long-term archival requirements.

MINDCo has established a mission-critical Data Centre environment comprising HPE Server infrastructure virtualized to run RedHat Enterprise Linux workloads, Storages, Fortinet Security Fabric (FortiGate next-generation firewalls, FortiManager, FortiSwitch), Cisco Distribution Switches, Aruba Core Switches, and centralized log collection via SolarWinds Kiwi Syslog Server. The proposed solution shall ensure compatibility with the existing infrastructure, minimize operational complexity, and support optimal and continuous operations for the National Single Window Platform.

The supplier shall be an experienced and reputable systems integrator with thorough knowledge and understanding of enterprise security solutions, with a proven background in installing, configuring, and maintaining such systems in high-availability government and enterprise environments.

SECTION A

CLIENT REQUIREMENTS

SUPPLY, INSTALLATION, AND COMMISSIONING OF NSW LOG RETENTION STORAGE, AND ANALYSIS UPGRADE, INCLUDING TECHNICAL SUPPORT AND PROFESSIONAL SERVICES

#	Description
1	SUPPLY, INSTALLATION, AND COMMISSIONING OF NSW LOG STORAGE, RETENTION AND ANALYTICS UPGRADE, INCLUDING TECHNICAL SUPPORT AND PROFESSIONAL SERVICES
1.1	Supply of Log Retention Storage
1.2	Supply of Log Analysis and Management System
1.3	Professional Services for Implementation, Configuration, Integration, and Knowledge Transfer for Log Retention Storage and Log Analysis & Management System
1.4	Training and Knowledge Transfer
1.5	Sign-Off Documentation and As-Built Documentation

SECTION B

TECHNICAL REQUIREMENTS

#	Description	Qty
1	SUPPLY, INSTALLATION, AND COMMISSIONING OF NSW LOG RETENTION STORAGE, AND ANALYSIS UPGRADE, INCLUDING TECHNICAL SUPPORT AND PROFESSIONAL SERVICES	1 LOT
1.1	Supply of Log Retention Storage	1 Bundle
1.1.1	OceanStor 5XXX Series Hybrid Flash Storage (2U, Dual Controllers, SAS, AC 240V HVDC, 8*1Gb ETH, 4*10Gb ETH (including Multi-Mode SFP+), 4*SAS3.0 port, 25*2.5 Inch SAS)	01 Nos
1.1.2	4 Ports SmartIO I/O module (SFP28, 25Gb ETH)	02 Nos
1.1.3	1.92TB SSD SAS Disk Unit (2.5")	12 Nos
1.1.4	OceanStor SAS Disk Enclosure (4U, AC 240V HVDC, 3.5-Inch, Expansion Module, 24 Disk Slots)	01 Nos
1.1.5	10TB 7.2K RPM NL SAS Disk Unit (3.5")	20 Nos
1.1.6	25Gbps SFP28 MMF 850nm, 0.1km commercial	08 Nos
1.1.7	Patch Cord, DLC/PC, DLC/PC, Multi-mode, 3m, A1a.2, 2mm, 42mm DLC, OM3 bending insensitive	12 Nos
1.1.8	High Speed Cable, 48G Mini SAS HD Cable, 3m, SFF 8644 Plug, 28AWG*4P*2B(S), SFF 8644 Plug, SAS 3.0	02 Nos
1.1.9	SAN&NAS Basic Software License (including DeviceManager, DME IQ, Acceleration, CIFS, NFS, Audit, DNS, Thin, Migration (SAN), Snap, Clone, QoS, Erase, CDP, UltraPath, WORM, Multi-Tenant, Quota)	01 Nos
1.1.10	Hi-Care Onsite Standard Service_36 Month(s)_OceanStor 5XXX Series Hybrid Flash Storage (2U, Dual Controllers, SAS, AC 240V HVDC, 8*1Gb ETH, 4*10Gb ETH, 4*SAS3.0 port, 25*2.5 Inch SAS)	01 Nos
1.1.11	Hi-Care Application Software Upgrade Support Service_36Month(s)_SAN&NAS Basic Software License	01 Nos
1.1.12	Hi-Care Onsite Standard Service_36Month(s)_OceanStor 1.92TB SSD SAS Disk Unit (2.5")	12 Nos
1.1.13	Hi-Care Onsite Standard Service_36Month(s)_OceanStor 10TB 7.2K RPM NL SAS Disk Unit (3.5")	20 Nos
1.1.14	Hi-Care Onsite Standard Service_36 Month(s)_OceanStor SAS Disk Enclosure	01 Nos
1.1.15	Instructor-Led Training including course fees, exam voucher, all traveling cost	01 PAX
1.1.16	Local 1-Year HW Configuration, Migration Services, and Change Request for Log Storage	01 Service
1.1.17	Local 1-Year 24 x 7 On-site Technical Support Services and Labour for Log Storage	01 Service
1.2	Supply of Log Analysis and Management System	1 Bundle

1.2.1	• Motherboard: ASUS Pro WS WRX90E-SAGE SE Motherboard
	• Processor: AMD Ryzen Threadripper PRO 9965WX 24-Core 48-Thread (5.4GHz Max Boost)
	• Memory: 256GB (8x32GB) DDR5 RDIMM 5600MHz
	• Graphics Card: 02 Nos x RTX 5090 32GB Graphics Card
	• OS: 02 Nos x 2 TB PCI-E 5.0 NVMe SSD
	• Application Storage 1: 01 Nos x 4 TB PCI-E 5.0 NVMe SSD
	• Application Storage 2: 01 Nos x 24TB 7200 RPM SATA HDD
	• Sound Card: Onboard Realtek ALC1220P HD Audio
	• On-board Management Network: 1Gb Ethernet (Dedicated management LAN)
	• Network: Dual 25GbE SFP28 PCI-E Adapter
	• Peripherals: Wireless Keyboard and Mouse Combo with AAA Batteries
	  o Keyboard and Mouse
	  ▪ Connection Type: Bluetooth Smart and 2.4GHz wireless connection
	  ▪ Wireless range: 9m
	  ▪ Wireless encryption: Yes
	• Type of Chassis: Fractal Design Define 7 XL - Black
		01 Nos

#	Description	Qty
	○ Steel Frame and Side Panels ○ Two 5.25" Drive Bays ○ Eight 2.5/3.5" Drive Bays ○ Two 2.5" Drive Mounts ○ (09) Expansion Slots ○ USB 3.1 Gen 1 Type-A ○ USB Gen 2 Type-C ○ Should support Liquid Cooling ○ Should supports GPUs up to 20" or higher • Power Supply: 1700W 80+ Power Supply • Cooling: High Performance Cooling Fans • Warranty/Support: 3 Year Limited Warranty (3 Year Labor & 1 Year Part Replacement)	
1.2.2	Local 1-Year On-site Technical Support Services and Labour for Analysis and Analysis System	01 Service
1.2.3	Local 1-Year HW Configuration, Migration Services, and Change Request for Analysis System	01 Service
1.3	**Professional Services for Implementation, Configuration, Integration, and Knowledge Transfer for Log Retention Storage and Log Analysis & Management System**	**1 Service**
1.3.1	<u>Project Management</u> • Dedicated Project Manager • Detailed project plan with milestones, resource allocation, and risk management.	
1.3.2	<u>Solution Design and Architecture</u> • Conduct a discovery workshop with the customer to gather functional and performance requirements. • Assess the current IT infra, including compute, network topology, and data services integration. • Define storage capacity, performance targets (IOPS, latency, throughput), and data protection needs. • Prepare a Storage Architecture Design Document (SADD) covering: • Physical layout and rack allocation for the SAN storage. • Logical configuration including storage pools, LUN design, RAID policy, and tiering configuration. • Data protection architecture. • Integration with existing Red Hat virtualization platform. • Integration with existing Fortinet Security Fabric • Integration with existing Veeam Backup Infrastructure • Review and obtain approval of the final design before implementation. • Develop detailed implementation and migration plans, including pre-installation checklist, risk assessment, and rollback strategy. • Prepare and validate HW and SW readiness (firmware compatibility, licenses, networking, cabling)	
1.3.3	<u>Installation and Deployment</u> • Unpack, inspect, and stage the storage system components. • Rack-mount the SAN Storage system. • Install any accessories according to OEM best practice guides. • Perform structured cabling using the fiber optic patch cords to connect storage to SAN or IP network. • Connect and label power feeds to dual power sources. • Initial System Configuration ○ Power up the system and verify system boot and component health. ○ Configure management IPs, DNS, and time synchronization (NTP).	

#	Description	Qty
	○ Create disk domains and storage pools using the SAS SSD drives. ○ Enable data reduction features (compression/deduplication) and Thin provisioning. ○ Configure host connectivity and mapping using iSCSI or FC protocols based on customer infra. ○ Configure snapshot policies on primary storage and DR storage ○ Configure storage replication policies and retention policies for LUNs ○ Implement basic security settings, incl. administrator credentials, audit logs, and remote access. ○ Activate and configure all licensed software modules.	
1.3.4	<u>Integration and Migration Services</u> • Integrate SAN storage with the existing Virtualization platform • Configure host initiators, zoning (if FC), or target mapping (if iSCSI) on all existing clusters • Register hosts in the storage system and verify multipathing. • Integrate storage alerts and performance metrics with centralized monitoring. • Validate performance benchmarks (IOPS, latency, throughput) against design objectives. • Migrate data/services from existing MSA 2040 to OceanStor 5XXX series • Configure OceanStor 5XXX series as backup target in Veeam infrastructure • Configure Storage for Fortinet Security infrastructure	
1.3.5	<u>Testing and Commissioning</u> • Installation Verification Tests (IVT) • Power and hardware redundancy test (controllers, PSUs, fans). • Storage pool and LUN creation/expansion verification. • Host connectivity validation (multipath I/O, network failover). • Snapshot function verification. • Performance baseline test under normal and failover conditions. • Data protection, replication, and snapshot management.	
1.4	**Training and Knowledge Transfer**	**1 Service**
1.4.1	<u>On-the-Job Training and Knowledge Transfer</u> • On-the-job training for Daily operations, health monitoring, and performance tuning. • Data protection, replication, and snapshot management. • Basic troubleshooting and escalation process	1 Nos
1.5	**Sign-Off Documentations**	**1 Service**
1.5.1	<u>Sign-Off Documentation and As-Built Documentation</u> • As-built architecture diagrams. • Detailed configuration baselines and policy documentation. • User manuals and quick reference guides	**1 Service**

SECTION C

PRE-QUALIFICATION

Parties interested in delivering the scope of work outlined in Annex I must meet the Section C Pre-Qualification requirement below:

a) **Experience**.

Proof of supply of similar items to other organizations within the last 5 years. (Bidders should submit letters from organizations mentioning successful delivery and implementation.)

b) **Mandatory Documents:**

- Company Registration Certificate
- SME Registration Certificate
- GST Registration Certificate
- Tax Clarence Certificate (last 30 days from the date of bid submission)
- Last 2 Year Financial Statements
- All the other relevant documents required/mentioned to submit in this bid document.

c) **Manufacture Authorization / Accreditation:**

A firm that does not manufacture or produce the goods it offers to supply shall submit the Manufacturer's Authorization Letter to demonstrate that it has been duly authorized by the manufacturer or producer of the goods to supply and install the goods and service in the of Maldives.

- **Huawei**

d) **Delivery and Installation:**

Delivery and installation should be completed within 90 days of receiving the purchase order.

e) **Resources:**

The vendor MUST have the following full-time OEM Certified Professional/Engineer under its payroll to provide all professional services. All relevant engineer(s) certificates and supporting documents shall be included with the proposal. Required certificates of the engineer(s):

Implementation and Technical Support Engineer Certificate:

- IT Project Management or IT Service Management
- Huawei HCIA Storage

Migration and Integration Engineer Certificate:

- HPE Accredited Technical Professional Storage Solution
- Veeam Certified Engineer (VMCE)
- Fortinet Certified Fundamentals in Cybersecurity
- Fortinet Certified Associate in Cybersecurity
- Fortinet Certified Professional Network Security

- Cisco Certified Specialist – Enterprise Core
- Cisco Certified Network Professional Enterprise (CCNP – Enterprise)

It is mandatory that the supplier attaches a professional certificate of the engineer and other related reference documents. The supplier shall submit the following documents:

a) Certification copies of the relevant training.
b) Letter from the organization that the engineer employed at that organization.
c) ID card OR passport copy of the engineer.
d) Contact information of the staff and his/her supervisor in that organization.

The bidder must read, understand, and comply with all areas of this RFQ. Any other information passed during the information session or any information passed via email shall be considered as a requirement of this RFQ.

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