Note: All tenders and quotations are done via our eProcurement system.

Please note you must be registered on CSD.

The information given below is an extract of the scope of work. **To access/open the full set of tender documentation, kindly go to www.procurement.petrosa.com and log in.**

If you have a MAAA you are already registered, please login as indicated below:

Username: MAAA...
User Code: MAAA...
Password: newuser

Contact the call center on **012 663 8815** or email: **support@intenda.net** if you are having problems with your login or alternatively contact the Contact Person of the Tender.

If **you do not have a MAAA** CSD registration number, please click on **"Not Registered Yet"** and register. Click on the link below to download a "how to" guide to assist you.

http://www.procurement.petrosa.com/Downloads/Documents/SupplierSelfRegistration.pdf

CTT25620
Scope of Work / Specifications

Tender: Enterprise Storage System

1. Introduction

PetroSA invites proposals for an enterprise-grade, on-premises storage system. The purpose of this Request for Proposal (RFP) is to solicit proposals from various candidate organizations, conduct a fair evaluation, and select the organization that best aligns with our requirements.

2. Background

PetroSA requires a robust, secure, and scalable storage system capable of managing a diverse range of file types, including databases, flat files, and multimedia. The total requirement is for 800 TB, but we wish to start with an initial capacity of 200 TB, with the capability to expand in increments of 100 TB as per the Storage on Demand model.

3. Current storage installation

PetroSA have the following technology in our environments and capacity.

Make	Model	Total Capacity	Connectivity
DELL-EMC	VNX 5600	750TB	Fibre-Channel
DELL-EMC	CX4-240	450TB	Fibre-Channel

4. SCOPE OF WORK

4.1 Storage System

Supply and installation of an All-Flash storage system with an initial capacity of 200 TB, scalable in increments of 100 TB up to a total of 800 TB. The Tenderer/s should provide a detailed implementation plan, including timelines, resources required, and any potential impact on PetroSA's operations during the installation process.

The storage system should be capable of managing a diverse range of file types, including databases, flat files, and multimedia. The Tenderer/s should provide information on how the system manages different file types, including any specific features or technologies used.

The system should have built-in redundancy to maintain data availability and integrity. The Tenderer/s should provide details on the redundancy mechanisms used, including any failover processes, RAID configurations, and error correction techniques.

The system should implement standard enterprise-class security features to protect data from unauthorized access and potential threats. The Tenderer/s should provide details on the security features of the system, including data encryption, user access controls, audit logs, and any other security measures.

The system should comply with General Data Protection Regulation (GDPR) and Protection of Personal Information Act (POPIA). The Tenderer/s should provide evidence of compliance, including any certifications, and details on how the system supports compliance, such as data anonymization, right to erasure, and data portability features.

Tenderers should provide detailed technical specifications of the proposed system, including but not limited to, the architecture, performance metrics (IOPS, throughput, latency), data protection and redundancy mechanisms, and scalability features. This should be provided in a clear and understandable format, avoiding unnecessary jargon.

4.2 Connectivity Options

The Tenderer/s should provide detailed information about the connectivity options supported by the storage system. This should include, but not be limited to, the types of network interfaces (e.g., Ethernet, Fibre Channel), supported network protocols (e.g., iSCSI, NFS, SMB), and any proprietary connectivity technologies. The Tenderer/s should also provide information on the maximum bandwidth supported by these interfaces and any features to optimize network performance.

The Tenderer/s should also provide information on the system's compatibility with existing network infrastructure and any requirements or recommendations for network upgrades to ensure optimal performance. This should include any specific network hardware requirements, recommended network configurations, and potential impacts on network performance.

The Tenderer/s should provide information on how the system can be integrated with existing IT infrastructure, including any specific hardware, software, or middleware requirements. This should include details on any APIs or SDKs provided for integration, compatibility with virtualization platforms, and support for common operating systems and database systems.

4.3 Storage on Demand Model

The Tenderer/s should propose a Storage on Demand model that allows for flexible growth of storage capacity in line with PetroSA's needs. This should include details on how additional capacity can be added, any lead times required, the pricing structure for additional capacity, and any potential impacts on performance or availability during capacity upgrades.

4.4 **Knowledge Transfer**

The Tenderer/s should provide comprehensive knowledge transfer to the in-house team for managing the storage system and performing day-to-day tasks. This should include training materials, sessions, and ongoing support as needed. The Tenderer/s should provide a detailed training plan, including the topics covered, the format and duration of the training sessions, and any prerequisites for the training.

5. ENQUIRIES

Any enquiries regarding this tender should be addressed to **Hennie Fortuin** in the Tender Office at e-mail address Martinhennie.fortuin@petrosa.co.za