Request for Quotation (RFQ) for the supply of Lustre storage hardware to the CSIR

CSIR RFQ No. 9132/05/03/2019

Date of issue:	Tuesday, 19 February 2019
Closing Date and Time :	**Tuesday, 05ᵗʰ March 2019 at 16h30**
Contact details and Submission is via email only and sent to:	Submission of quotations or any other enquiries is via email to: **tender@csir.co.za**
Category	Computer Hardware
CSIR Business Hours	08:00 – 16:30

1 INVITATION FOR QUOTATION

Quotations are hereby invited for the supply of Lustre storage hardware to the CSIR.

2 QUOTATION REQUIREMENTS

Server
1x Dell PowerEdge R740 with :-
- 2 X Intel Xeon Gold 6134
- 64 GB Memory
- 4 X 600 HDD
- 2 X SAS 12Gbps HBA Dual Port
- 1 X 3Yr ProSupport

Storage
- 32 X 12TB, HDD, 7.2K , 512e, SAS12, 3.5", H-LEO, Customer Kit
- 4 X 12Gb HD-Mini to HD-Mini SAS Cable, 2M
- 1 X Dell/EMC ME484 Storage Expansion Enclosure
- 84 X 12TB, HDD, 7.2K , 512e, SAS12, 3.5", H-LEO
- 2 X 12Gb HD-Mini to HD-Mini SAS Cable, 4M

Network
1 X Mellanox SX6025 36 Port FDR Switch
1 X Dell N2024 24 port 1GB switch
2 X 2M FDR Copper Cables
12 X 15M AOC FDR Cables

See **Annexure "B"** for detailed Storage Technical Specification

3   EVALUATION CRITERIA

3.1   Selection of suppliers will be based on the 80/20 preference point system.

3.2   Indicate valid B-BBEE status on quotation. No B-BBEE status will equal zero points.

3.3   Indicate CSD number (National Treasury Central Supplier Database) on quotation. If not registered yet on CSD, use www.csd.gov.za to register.

3.4   No order will be issued or no contract will be signed without a valid CSD number.

4   PRICING QUOTATION

4.1   Price needs to be provided in South African Rand (excl. VAT), with details on price elements that are subject to escalation and exchange rate fluctuations clearly indicated.

4.2   Price should include additional cost elements such as freight, insurance until acceptance, duty where applicable, etc.

4.3   Payment will be according to the CSIR Payment Terms and Conditions.

5   OTHER TERMS AND CONDITIONS

5.1   The supplier shall under no circumstances offer, promise or make any gift, payment, loan, reward, inducement, benefit or other advantage, which may be construed as being made to solicit any favour, to any CSIR employee or its representatives. Such an act shall constitute a material breach of the Agreement and the CSIR shall be entitled to terminate the Agreement forthwith, without prejudice to any of its rights.

5.2   A validity period of 90 days will apply to all quotations except where indicated differently on the quote.

6   No goods and/or services should be delivered to the CSIR without an official CSIR Purchase order. CSIR purchase order number must be quoted on the invoice. Invoices without CSIR purchase order numbers will be returned to supplier.

ANNEXURE "A" – SBD 1 FORM

Completed form must be submitted with the quotation.

7   ANNEXURE "B" STORAGE TECHNICAL SPECIFICATION

Definitions

1. **Units** – All storage capacities in this document are expressed in SI units, for example $1KB = 10^3$ bytes. The tenderer must use SI units in their response.

2. **Raw Capacity** – The raw capacity is the unformatted sum of the capacity of all disks in the storage array.

3. **Usable Capacity** – Usable capacity is the capacity of a formatted volume mounted by the operating system. The usable capacity of a volume in SI units may be viewed in Linux using the "df -H" command.

4. **Storage Array** – The device(s) containing the disks and disk controllers to create storage volumes

5. **Host Server** – The server which mounts the volume(s) exposed by the Storage Array(s)

Technical Specification (Elimination if missing Criteria)

1. The Server must contain/support at least:

Dell PowerEdge R740
64 GB of RAM
4 x 600GB HDDs
2 X Intel Xeon Gold 6134
2 X SAS 12Gbps HBA Dual Port

2. The Storage must contain/support at least:

32 X 12TB, HDD, 7.2K , 512e, SAS12, 3.5", H-LEO, Customer Kit
4 X 12Gb HD-Mini to HD-Mini SAS Cable, 2M
1 X Dell/EMC ME484 Storage Expansion Enclosure
84 X 12TB, HDD, 7.2K , 512e, SAS12, 3.5", H-LEO

3. Network

1 X Mellanox SX6025 36 Port FDR Switch
1 X Dell N2024 24 port 1GB switch
2 X 2M FDR Copper Cables
12 X 15M AOC FDR Cables

4. Integration to Lengau HPC Cluster - OEM and a site reference letter.

Experience in bright cluster manager
Experience in Altair portable batch systems
Experience in intel manager for lustre

Installation and Configuration

The solution will be installed by the supplier in the CHPC's data centre in a space deemed to be suitable by the CHPC. The exact location will be determined once a supplier is selected and the specification of the solution is known.

The supplier is responsible for the installation and configuration of the system to bring the solution to a usable state. The supplier should further integrate the hardware to Lengau cluster.

The mandatory software to be installed by the Supplier on the solution is:

1. Operating System: CentOS 7
2. OFED Version: 3.4
3. Lustre Client Version: 2.8

Note: This is not a Purchase Order.

END OF RFQ