रामन अनुसंधान संस्थान
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(स्वायत्त संस्थान, विज्ञान और प्रौद्योगिकी विभाग, भारत सरकार)
RAMAN RESEARCH INSTITUTE
C. V. Raman Avenue, Sadashivanagar, Bengaluru - 560 080, India
(Autonomous Institute, Department of Science and Technology, Government of India)

Ref: L/268/COMP/2022-23 18.01.2023

Tender Notice No: NIT-PR-221849

CORRIGENDUM

Sub: Corrigendum to Tender Notice No. NIT-PR-221849 dated 02.01.2023

We request you to kindly note the following corrigendum to the Tender Notice No. NIT-PR-2218499 dated 02.01.2023 for Supply, Installation, Testing and Commissioning of Server Virtualization and Storage Infrastructure and send the quotations accordingly:

1. The corrections/ corrigendum are as per enclosed list. Kindly make a due note of the same and participate accordingly.

2. All other terms and conditions remain unchanged.

18/1/2023

Authorised Signatory
सी.एन. राममूर्ति C.N. Ramamurthy
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CORRIGENDUM – SITC of Server Virtualization and Storage Infrastructure

1. Storage Server (Primary) – Page 3 of 16

Feature / Descritption		**To be read as**
Capacity & Scalability	The Storage Array shall be offered with 600TB Usable Capacity after RAID 5/6. It should have a minimum usable capacity of 55TB using (8+1) SSD drives and remaining usable capacity of 550TB using (10+2) NL-SAS drives in a single enclosure. Global Hot-spare to be included for each type of drives.	The Storage Array shall be offered with 600TB Usable Capacity after RAID 5/6. It should have a minimum usable capacity of 55TB using (8+1) SSD drives and remaining usable capacity of 545TB using (10+2) NL-SAS drives in a single enclosure. Global Hot-spare to be included for each type of drives.
Front-end Ports & Back-end Ports	1. Offered Storage system shall be supplied with 8 x 10/25G iSCSI ports at Front End 2. Offered storage system shall have 2 x 12G SAS ports for Back- end connectivity.	1. Offered Storage system shall be supplied with 8 x 25G iSCSI ports at Front End 2. Offered storage system shall have 2 x 12G SAS ports for Back- end connectivity.
Storage Scalability	The storage should be scalable to atleast 300 drives or higher using additional enclosures	The storage should be scalable to atleast 240 drives or higher using additional enclosures

2. Storage Server (Primary) – Page 4 of 16

Feature / Descritption		**To be read as**
Raid Support	1. Offered Storage Subsystem shall support Raid 1, 5, 6, 10, & Adapt 2. All Raid Sets shall support thin provisioning. Vendor shall offer the license of thin provisioning for complete supported capacity of the array.	1. Offered Storage Subsystem shall support Raid 1, 5, 6, 10, & Adapt or equivalent or better technology 2. All Raid Sets shall support thin provisioning. Vendor shall offer the license of thin provisioning for complete supported capacity of the array.
Global and dedicated Hot Spare	1. Offered Storage Array shall support Global hot Spare for offered Disk drives. 2. Atleast 2 Global hot-spare drive should be configured for every 30 Drives. 3. Offered storage array shall have the support for distributed hot spare	1. Offered Storage Array shall support Global hot Spare for offered Disk drives. 2. Atleast 1 Global hot-spare drive should be configured for every 40 Drives of each configured Tier and type. 3. Offered storage array shall have the support for distributed hot spare

3. Storage Server (Secondary/DR) – Page 6 of 16

Feature / Descritption		**To be read as**
Capacity & Scalability	The Storage Array shall be offered with 600TB Usable Capacity after RAID 6. It should have a minimum of 600TB using (10+2) NL-SAS drives in a single enclosure. Global hot spare to be included.	The Storage Array shall be offered with 600TB Usable Capacity after RAID 6. It should have a minimum of 600TB using (11+2) NL-SAS drives in a single enclosure. Global hot spare to be included.
Front-end Ports & Back-end Ports	1. Offered Storage system shall be supplied with 8 x 10/25G iSCSI ports at Front End 2. Offered storage system shall have 2 x 12G SAS ports for Back- end connectivity.	1. Offered Storage system shall be supplied with 8 x 25G iSCSI ports at Front End 2. Offered storage system shall have 2 x 12G SAS ports for Back- end connectivity.
Storage Scalability	The storage should be scalable to atleast 300 drives or higher using additional enclosures	The storage should be scalable to atleast 240 drives or higher using additional enclosures

4. Storage Server (Primary) – Page 7 of 16

Feature / Descritption		**To be read as**
Raid Support	1. Offered Storage Subsystem shall support Raid 1, 5, 6, 10, & Adapt 2. All Raid Sets shall support thin provisioning. Vendor shall offer the license of thin provisioning for complete supported capacity of the array.	1. Offered Storage Subsystem shall support Raid 1, 5, 6, 10, & Adapt or equivalent or better technology 2. All Raid Sets shall support thin provisioning. Vendor shall offer the license of thin provisioning for complete supported capacity of the array.
Global and dedicated Hot Spare	1. Offered Storage Array shall support Global hot Spare for offered Disk drives. 2. Atleast 2 Global hot-spare drive should be configured for every 30 Drives. 3. Offered storage array shall have the support for distributed hot spare	1. Offered Storage Array shall support Global hot Spare for offered Disk drives. 2. Atleast 1 Global hot-spare drive should be configured for every 40 Drives of each configured Tier and type. 3. Offered storage array shall have the support for distributed hot spare