

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE

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**CORRIGENDUM NOTICE No.-II**

Date: 25.08.2021

NIT No. : IACS/CCRES/INST/MAIL-SERVER/2020-21/64

Date: 13.08.2021

Sub: Emergent request for supply and installation of **Servers for Mail Server solution**

**SERVERS WITH LOAD BALANCER AND SAN STORAGE**

**Mail Server : Qty 2**

Serial. No.	Component Name	Description	Revised after Pre-bid meeting
1	Form Factor/Height	2U rack server	LFF/SFF
2	Processors	2 nos. second-generation Intel® Xeon® Gold processors, up to 205W; with Processor base frequency of 2.1 GHz and Max Turbo frequency of 3.7 GHz, with 16 cores and with 22 MB L3 Cache.	Same as Previous
3	Memory	Populated with 256 GB : Scalable upto 2 TB. Having 24x DIMM slots using 128GB DIMMs and Intel® Optane™ DC Persistent Memory; 2666MHz /2933MHz TruDDR4	Populated with 256 GB : Scalable upto 2 TB. Having 24x DIMM slots using 128GB DIMMs and Intel® Optane™ DC Persistent Memory; 2666MHz/2933MHz TruDDR4 /Equivalent
4	Expansion Slots	Up to 7x PCIe 3.0 via multiple riser options, including 1x dedicated PCIe slot for RAID adapter	Up to 6/7/8x PCIe 3.0 via multiple riser options, including 1x dedicated PCIe slot for RAID adapter
5	Hard Disks	minimum 3 nos. of hard disk with min. capacity of 5 TB	minimum 3 nos. of hard disk for usable capacity of 5 TB

			(total)
<b>6</b>	Drive Bays	Scalable up to 24. 2.5" hot-swap bays	Scalable up to 8/16/12/24. 2.5" / 3.5" hot-swap bays
<b>7</b>	HBA/RAID Support	HW RAID (up to 24 ports) with flash cache; up to 16-port HBAs	HW Raid with upto 8 ports with flash cache. 1 FC 16Gb Dual-port HBAs
<b>8</b>	Security and Availability Features	TPM 1.2/2.0; PFA; hot-swap/redundant drives, fans, and PSUs; 45°C continuous operation; light path diagnostic LEDs; front-access diagnostics via dedicated USB port	TPM 1.2/2.0; PFA; hot-swap/redundant drives, fans, and PSUs; 35°C or above continuous operation; Diagnostic LEDs; front-access diagnostics via dedicated USB port
<b>9</b>	Network Interface	2/4-port 1GbE LOM; 2/4-port 10GbE LOM (Base-T or SFP+); 1x dedicated 1GbE management port	4-port 1GbE; 2 port 10GbE ; or 4 nos. 1/10GbE configurable ports;
<b>10</b>	Power (Energy Star 2.0 compliant)	2x hot swap/redundant: 550W/750W/1100W/1600W 80 PLUS Platinum; or 750W 80 PLUS Titanium; or -48V DC 80 PLUS Platinum	2x hot swap/redundant:
<b>11</b>	Systems Management	Controller embedded management, Administrator centralized infrastructure delivery, Integrator plugins, and Energy Manager centralized server power management	Controller embedded management, Administrator centralized infrastructure delivery, Integrator plugins, and Energy Manager centralized server power management
<b>12</b>	OS to be provided	Microsoft Windows Server Data centre Academic version	Microsoft Windows Server Standard Academic edition prices with 2019 latest version. CAL User required. SSL Certificate required.
<b>13</b>	Mail server software	Microsoft Exchange server	Microsoft Windows Server Standard Academic edition prices with 2019 latest version. CAL User required. SSL Certificate required.
<b>14</b>	Limited Warranty	3-year customer replaceable unit and onsite service, next business day 9x5; optional service upgrades	3-year OEM onsite support next business day 9x5; optional service upgrades

**Servers for Active Directory: Qty 1**

<b>Serial. No.</b>	<b>Component Name</b>	<b>Description</b>	<b>Revised after Pre-bid meeting</b>
<b>1</b>	Form Factor/Height	2U rack server	LFF/SFF
<b>2</b>	Processors	2 nos. second-generation Intel® Xeon® Gold processors, up to 205W; with Processor base frequency of 2.1 GHz and Max Turbo frequency of 3.7 GHz, with 16 cores and with 22 MB L3 Cache.	Same as Previous
<b>3</b>	Memory	Populated with 128 GB : Scalable upto 2 TB. Having 24x DIMM slots using 128GB DIMMs and Intel® Optane™ DC Persistent Memory; 2666MHz / 2933MHz TruDDR4	Populated with 128 GB : Scalable upto 2 TB. Having 24x DIMM slots using 128GB DIMMs and Intel® Optane™ DC Persistent Memory; 2666MHz / 2933MHz TruDDR4/Equivalent
<b>4</b>	Expansion Slots	Up to 7x PCIe 3.0 via multiple riser options, including 1x dedicated PCIe slot for RAID adapter	Up to 6/7/8x PCIe 3.0 via multiple riser options, including 1 x dedicated PCIe slot for RAID adapter
<b>5</b>	Hard Disks	5 TB	minimum 3 nos. of hard disk for usable capacity of 5 TB (total)
<b>6</b>	Drive Bays	Scalable up to 24. 2.5" hot-swap bays	Scalable up to 8/16/12/24. 2.5" / 3.5" hot-swap bays
<b>7</b>	HBA/RAID Support	HW RAID (up to 24 ports) with flash cache; up to 16-port HBAs	HW Raid with upto 8 ports with flash cache. 1 FC 16Gb Dual-port HBAs
<b>8</b>	Security and Availability Features	TPM 1.2/2.0; PFA; hot-swap/redundant drives, fans, and PSUs; 45°C continuous operation; light path diagnostic LEDs; front-access diagnostics via dedicated USB port	TPM 1.2/2.0; PFA; hot-swap/redundant drives, fans, and PSUs; 35°C or above continuous operation; Diagnostic LEDs; front-access diagnostics via dedicated USB port
<b>9</b>	Network Interface	2/4-port 1GbE LOM; 2/4-port 10GbE LOM (Base-T or SFP+); 1x dedicated 1GbE management port	4-port 1GbE; 2 port 10GbE ; or 4 nos. 1/10GbE configurable ports;

<b>10</b>	Power (Energy Star 2.0 compliant)	2x hot swap/redundant: 550W/750W/1100W/1600W 80 PLUS Platinum; or 750W 80 PLUS Titanium; or -48V DC 80 PLUS Platinum	2x hot swap/redundant:
<b>11</b>	Systems Management	Controller embedded management, Administrator centralized infrastructure delivery, Integrator plugins, and Energy Manager centralized server power management	Controller embedded management, Administrator centralized infrastructure delivery, Integrator plugins, and Energy Manager centralized server power management
<b>12</b>	OS to be provided	Microsoft Windows Server Datacentre Edition Academic version	Microsoft Windows Server Standard Academic edition prices with 2019 latest version. CAL User required. SSL Certificate required.
<b>13</b>	Limited Warranty	3-year customer replaceable unit and onsite service, next business day 9x5; optional service upgrades	3-year OEM onsite support next business day 9x5; optional service upgrades

**Email Security Gateway: Qty 1**

<b>Serial. No.</b>	<b>Component Name</b>	<b>Description</b>	<b>Revised after Pre-bid meeting</b>
<b>1</b>	Message capacity	Up-to 100,000 per hour	Up-to 50,000 per hour
<b>2</b>	Hard drive	500 GB or more	Same as Previous
<b>3</b>	Size	1 U rack mountable	Same as Previous
<b>4</b>	Other features supported	Protection against malicious URLs, wizard based DLP rules, Policy based encryptions, Spam filtering	Same as Previous
<b>5</b>	Limited Warranty	3-year customer replaceable unit and onsite service, next business day 9x5; optional service upgrades	3-year OEM onsite support next business day 9x5; optional service upgrades

**Load Balancer: Qty 1**

<b>Serial. No.</b>	<b>Component Name</b>	<b>Description</b>	<b>Revised after Pre-bid meeting</b>
<b>1</b>	Ports	Upto 6 External and internal Ports	Same as Previous
<b>2</b>	Full-line rate performance	480 Gbps and 1.60 microseconds latency	5 Gbps
<b>3</b>	High availability	Server failure detection and recovery; Switch failure detection and failover to standby switch	Same as Previous
<b>4</b>	Policy-based traffic steering and routing	Configurable rules to match on Layer 2 - 4 packet header fields and redirect packets to an outgoing port,	Same as Previous
<b>5</b>	Limited Warranty	3-year customer replaceable unit and onsite service, next business day 9x5; optional service upgrades	3-year OEM onsite support next business day 9x5; optional service upgrades

**External Storage: Qty 1**

<b>Serial. No.</b>	<b>Component Name</b>	<b>Description</b>	<b>Revised after Pre-bid meeting</b>
<b>1</b>	HDD	96 TB to be supplied, with capability to grow at least 5 times	96 TB to be supplied, with capability to grow at least 5 times.
<b>2</b>	Full-line rate performance	24 SFF hot-swap drive bays; up to 8x E1024 enclosures can be daisy chained on a supported RAID adapter for a total of up to 192 SFF drives	24 SFF hot-swap drive bays;
<b>3</b>	Drive Technology	SAS and NL SAS HDDs and SEDs; eMLC SAS SSDs. Intermix of HDDs, SEDs, and SSDs is supported within an	SAS and NL SAS HDDs and SSDs. Intermix of HDDs and SSDs is supported. Minimum 15 TB of SSD Drives to be

		enclosure	provided if there is intermix.
4	RAID controllers and HBAs	To be supplied with the RAID adapters and HBAs	SAN dual controller with 2 nos. controller having 4 X 16GB SW FC in each controller.
5	Limited Warranty	3-year customer replaceable unit and onsite service, next business day 9x5; optional service upgrades	3-year OEM onsite support next business day 9x5; optional service upgrades

### **Software licenses**

<b>Serial. No.</b>	<b>Component Name</b>	<b>Description</b>	<b>Revised after Pre-bid meeting</b>
1	Exchange Server	2 X Licenses with Academic edition prices with three years software assurance	Microsoft Windows Server Standard Academic edition prices with 2019 latest version. CAL User required. SSL Certificate required. CAL User required with 4 Years Software assurances.
2	Exchange CALS	1000 X Licenses with Academic edition prices with three years software assurance	Microsoft Windows Server Standard Academic edition prices with 2019 latest version. CAL User required. SSL Certificate required. CAL User required with 4 Years Software assurances.

### **Installation-**

Installation of all the components in the Bill of Material are in scope. (It includes the Server and storage hardware and the associated passive components, the operating systems for these hardware and MS Exchange software. Mail Server configuration is not included in scope of work.

**Acting Registrar**