

**Amendment-3 to "RFP 01/2018-19 dated 12/04/2018 for Supply, Installation, Integration and Maintenance of Servers and Other Items"**

It is decided to amend the following in respect of the above RFP:

Sl. No.	Page No.	Clause No.	Existing	Amended
a.	50-63	<u>Annexure-10</u>	<u>Technical Specification of Servers and Other Items</u>	Amended Annexure-10(Technical Specification of Servers and Other Items) is attached as Annexure.

All the other Instructions and Terms & Conditions of the above RFP remain unchanged.

Please take note of the above Amendments while submitting your response to the subject RFP.

Date: 03/05/2018

Place: Bengaluru

  
Deputy General Manager  




**Annexure-10 (Amended)**  
**Technical Specification of Servers and Other Items**

SUB: RFP for Supply, Installation, Integration and Maintenance of Servers and Other Items.  
Ref: Your RFP 01/2018-19 dated 12/04/2018

Note:	
1.	The Bidder shall specifically mention the make and model of the items offered for all the requirements in terms of RFP without fail, failing which the Bid is liable for rejection.
2.	If the Bidder feels that certain features offered are superior to what has been specified by the Bank, it shall be highlighted separately. Information regarding any modification required in the proposed configuration to meet the intent of the specifications and state-of-the-art technology shall be provided. However, the Bank reserves the right to accept the modifications / superior features suggested/offered.
3.	The Bidder shall provide all other required equipments and services, whether or not explicitly mentioned in this RFP, to ensure the intent of specification, completeness, operability, maintainability and upgradability.
4.	The selected bidder shall own the responsibility to demonstrate that the products offered are as per the specification/performance stipulated in this RFP and as committed by the bidder either at site or in bidder's work site without any extra cost to the Bank.

**A. Technical Specifications of Server (4 Nos. at DC and 4 Nos. at DRC):**

**1. Technical Specifications of Server (2 Nos. at DC and 2 Nos. at DRC)**

Sl. No.	Particulars	Detailed Configuration	Bidder's Compliance (Yes/No)
1.	<b>Mention Make and Model</b>		
2.	<b>Processors</b>	2*Intel® Xeon® Gold 6134 Processor (24.75M Cache, 3.20 GHz with minimum 8 Core with suitable cache & turbo frequency or higher)	
3.	<b>Chipset</b>	Suitable Server Class Motherboard and Chipset	
4.	<b>RAM</b>	512 GB RDIMM and upgradable up to at least 1TB	
5.	<b>HDD</b>	Minimum usable 960 GB SSD Disk in RAID 1	
6.	<b>HDD Type</b>	SSD Disks with minimum 3 DWPD	
7.	<b>Raid</b>	RAID controller with minimum 1GB cache	
8.	<b>HDD Bays</b>	2.5" backplane with up to 8 drives.	
9.	<b>NIC</b>	Minimum 4 Nos of 10Gbps SFP+ Ports for Network Connectivity (required to connect active - active connectivity to 10GBASE-SR SFP Module in Bank Network Switch (Nexus 7009/7010) for Virtualization network traffic)	
10.	<b>FC HBA</b>	Minimum 2 Nos of 16Gbps FC Host Bus Adapters (HBA) Ports for SAN Connectivity (required to connect active - active connectivity with proposed San Switch to create VM from proposed Storage)	
11.	<b>Form Factor</b>	Maximum 2U	
12.	<b>USB</b>	Minimum 1 Ports	
13.	<b>Certification</b>	Certified for Windows Server 2012 R2 or later Certified for Redhat Linux 6 or later Supported for Oracle Linux Release 6 or later	
14.	<b>OS Support &amp; Hypervisor Support</b>	All Kind of x86 & x86_64 OS (Redhat, SUSE, Windows Server 2012 R2 or later, etc). Hypervisor Support (ESXI, Hyper-V, KVM etc)	
15.	<b>Drivers</b> /	Required drivers and cables to be provided	



	Accessories		
16.	Remote Management	Server configuration Management with dedicate network port connectivity	
17.	Others	Required Cables has to be provided by the vendor.	

**2. Technical Specifications of Server (2 Nos. at DC and 2 Nos. at DRC):**

Sl. No.	Particulars	Detailed Configuration	Bidder's Compliance (Yes/No)
1.	Mention Make and Model		
2.	Processors	2*Intel® Xeon® Gold 6134 Processor (24.75M Cache, 3.20 GHz with minimum 8 Core with suitable cache & turbo frequency or higher)	
3.	Chipset	Suitable Server Class Motherboard and Chipset	
4.	RAM	512 GB RDIMM and upgradable up to at least 1TB	
5.	HDD	Minimum usable 960 GB SSD Disk in RAID 1	
6.	HDD Type	SSD Disks with minimum 3 DWPD	
7.	Raid	RAID controller with minimum 1GB cache	
8.	HDD Bays	2.5" backplane with up to 8 drives.	
9.	NIC	Minimum 6 Nos of 10Gbps SFP+ Ports for Network Connectivity (required to connect active - active connectivity to 10GBASE-SR SFP Module in Bank Network Switch (Nexus 7009/7010) for Virtualization network traffic)	
10.	FC HBA	Minimum 2 Nos of 16Gbps FC Host Bus Adapters (HBA) Ports for SAN Connectivity (required to connect active - active connectivity with proposed San Switch to create VM from proposed Storage)	
11.	Form Factor	Maximum 2U	
12.	USB	Minimum 1 Ports	
13.	Certification	Certified for Windows Server 2012 R2 or later Certified for Redhat Linux 6 or later Supported for Oracle Linux Release 6 or later	
14.	OS Support & Hypervisor Support	All Kind of x86 & x86_64 OS (Redhat, SUSE, Windows Server 2012 R2 or later, etc). Hypervisor Support (ESXI, Hyper-V, KVM etc)	
15.	Drivers / Accessories	Required drivers and cables to be provided	
16.	Remote Management	Server configuration Management with dedicate network port connectivity	
17.	Others	Required Cables has to be provided by the vendor.	

**B. Technical Specifications of Database Servers (1 No. at DRC)**

Sl. No.	Particulars	Detailed Configuration	Bidder's Compliance (Yes/No)
1.	Mention Make and Model		
2.	Processor	Intel® Xeon® Silver 4112 Processor (4 Core, 2.60 GHz Base Frequency, 8.25 L3 Cache) or higher Should be scalable to 2 CPUs socket	
3.	Chipset	Suitable Server Class Motherboard and Chipset	



4.	RAM	Minimum 64 GB DDR4 RAM and upgradable up to at least 128 GB	
5.	HDD	Minimum usable capacity of 2.4 TB in RAID 5 Configuration.	
6.	HDD Type	SSD Disks with minimum 3 DWPD	
7.	Raid	RAID controller with minimum 1 GB cache	
8.	HDD Bays	2.5" backplane for minimum 6 drives.	
9.	NIC	Minimum 2 Nos. of Dedicated 1 Gbps Ethernet adapter and 2 meters CAT 6 Cable	
10.	USB	Minimum 1 Port	
11.	FC HBA	Minimum 2 Nos of 16Gbps FC Host Bus Adapters (HBA) Ports for SAN Connectivity (required to connect active - active connectivity with proposed San Switch to create VM from proposed Storage)	
12.	Remote Management	Dedicate port connectivity	
13.	Form Factor	Rack Server up to 2U	
14.	OS Support & Hypervisor Support	All Kind of x86 & x86_64 OS (Windows 2016 Server Standard edition or later). Hypervisor Support (ESXI, Hyper-V, KVM etc)	
15.	Certification	a) Certified for Windows Server 2016 or later b) Certified for Redhat Linux 6 or Later c) Supported for Oracle Linux release 6 or later d) IPv6	
16.	Drivers/ Accessories/ Others	Required Installation Media, Kit, downloadable drivers and cables to be provided.	
17.	Software Compatibility	.net Framework 4.5 and above	

**C. Technical Specifications Server (2 No. at DC and 2 Nos. at DRC):**

**1. Technical Specifications Server (1 No. at DC and 1 Nos. at DRC):**

Sl. No.	Particulars	Detailed Configuration	Bidder's Compliance (Yes/No)
1.	Mention Make and Model		
2.	Processor	Intel Processor (minimum 12 Core, 2.10 GHz Base Frequency) or Higher Should be scalable to 2 CPUs socket	
3.	Chipset	Suitable Server Class Motherboard and Chipset	
4.	RAM	Minimum 64 GB DDR4 RAM and upgradable up to at least 128 GB	
5.	HDD	Minimum usable capacity of 4 TB in RAID 5 Configuration	
6.	HDD Type	SSD Disks with minimum 3 DWPD	
7.	Raid	RAID controller with minimum 1 GB cache	
8.	NIC	Minimum 3 Nos. of Dedicated 1 Gbps Ethernet adapter and 2 meters CAT 6 Cable	
9.	USB	Minimum 1 Port	
10.	Remote Management	Dedicate port connectivity	
11.	Form Factor	Rack Server up to 2U	
12.	Operating	NA	



	System		
13.	Certification	IPv6	
14.	Drivers/ Accessories/ Others	Required Installation Media, Kit, downloadable drivers and cables to be provided.	
15.	Compatibility	Server should be compatible with Checkpoint setup (GAiA and Secure Platform R77 and R80). Compatible server list is available @ <a href="https://www.checkpoint.com/support-services/hcl/">https://www.checkpoint.com/support-services/hcl/</a> otherwise, the bidder has to submit a compliance report from OEM that the proposed server is compatible with Checkpoint setup(GAiA and Secure Platform R77 and R80).	

**2. Technical Specifications Server (1 No. at DC and 1 Nos. at DRC):**

Sl. No.	Particulars	Detailed Configuration	Bidder's Compliance (Yes/No)
1.	Mention Make and Model		
2.	Processor	Intel Processor (minimum 12 Core, 2.10 GHz Base Frequency) or Higher Should be scalable to 2 CPUs socket	
3.	Chipset	Suitable Server Class Motherboard and Chipset	
4.	RAM	Minimum 64 GB DDR4 RAM and upgradable up to at least 128 GB	
5.	HDD	Minimum usable capacity of 2 TB in RAID 5 Configuration	
6.	HDD Type	SSD Disks with minimum 3 DWPD	
7.	Raid	RAID controller with minimum 1 GB cache	
8.	NIC	Minimum 3 Nos. of Dedicated 1 Gbps Ethernet adapter and 2 meters CAT 6 Cable	
9.	USB	Minimum 1 Port	
10.	Remote Management	Dedicate port connectivity	
11.	Form Factor	Rack Server up to 2U	
12.	Operating System	NA	
13.	Certification	IPv6	
14.	Drivers/ Accessories/ Others	Required Installation Media, Kit, downloadable drivers and cables to be provided.	
15.	Compatibility	Server should be compatible with Checkpoint setup (GAiA and Secure Platform R77 and R80). Compatible server list is available @ <a href="https://www.checkpoint.com/support-services/hcl/">https://www.checkpoint.com/support-services/hcl/</a> otherwise, the bidder has to submit a compliance report from OEM that the proposed server is compatible with Checkpoint setup(GAiA and Secure Platform R77 and R80).	



**D. Technical Specifications of Server (2 No. at DC and 2 No. at DRC):**

**1. Technical Specifications of Application Server (1 No. at DC and 1 No. at DRC):**

Sl. No.	Particulars	Detailed Configuration	Bidder's Compliance (Yes/No)
1.	Mention Make and Model		
2.	Processor	Intel® Xeon® Silver 4114 Processor (8 Core, 2.20 GHz Base Frequency, 13.75 L3 Cache) or higher Should be scalable to 2 CPUs socket	
3.	Chipset	Suitable Server Class Motherboard and Chipset	
4.	RAM	Minimum 64 GB DDR4 RAM and upgradable up to at least 128 GB	
5.	HDD	Minimum usable capacity of 2*600 GB in 10k RPM RAID 1 Configuration	
6.	HDD Type	SSD Disks with minimum 3 DWPD	
7.	Raid	RAID controller with minimum 1 GB cache	
8.	NIC	Minimum 2 Nos. of Dedicated 1 Gbps Ethernet adapter and 2 meters CAT 6 Cable	
9.	USB	Minimum 1 Port	
10.	Remote Management	Dedicate port connectivity	
11.	Form Factor	Rack Server up to 2U	
12.	OS Support	RHEL 7.2 and later	
13.	Certification	IPv6	
14.	Drivers/ Accessories/ Others	Required Installation Media, Kit, downloadable drivers and cables to be provided.	

**2. Technical Specifications of Database Server (1 No. at DC and 1 No. at DRC):**

Sl. No.	Particulars	Detailed Configuration	Bidder's Compliance (Yes/No)
1.	Mention Make and Model		
2.	Processor	Intel® Xeon® Silver 4114 Processor (8 Core, 2.20 GHz Base Frequency, 13.75 L3 Cache) or higher Should be scalable to 2 CPUs socket	
3.	Chipset	Suitable Server Class Motherboard and Chipset	
4.	RAM	Minimum 64 GB DDR4 RAM and upgradable up to at least 128 GB	
5.	HDD	Minimum usable capacity of 10*900 GB in 15k RPM RAID 1 Configuration	
6.	HDD Type	SSD Disks with minimum 3 DWPD	
7.	Raid	RAID controller with minimum 1 GB cache	
8.	NIC	Minimum 2 Nos. of Dedicated 1 Gbps Ethernet adapter and 2 meters CAT 6 Cable	
9.	USB	Minimum 1 Port	
10.	Remote Management	Dedicate port connectivity	



11.	Form Factor	Rack Server up to 2U	
12.	OS Support	Windows Server 2012 or above.	
13.	Certification	IPv6	
14.	Drivers/ Accessories/ Others	Required Installation Media, Kit, downloadable drivers and cables to be provided.	

**E. Technical Specifications of Application & Database Servers (3 Nos. at DC and 3 Nos. at DRC)**

Sl. No.	Particulars	Detailed Configuration	Bidder's Compliance (Yes/No)
1.	Mention Make and Model		
2.	Processor	2 X Intel Xeon Gold 6130 Processor (16 Core, 2.10 GHz Base Frequency, 22 MB L3 Cache) or higher	
3.	Chipset	Suitable Server Class Motherboard and Chipset	
4.	RAM	Minimum 128 GB DDR4 2666 or higher upgradable to 768 GB	
5.	HDD	Minimum usable capacity of 2TB in RAID 5 Configuration.	
6.	HDD Type	SSD Disks with minimum 3 DWPD	
7.	Raid	RAID 5 controller with minimum 1 GB cache	
8.	HDD Bays	2.5 backplane for minimum 6 drives.	
9.	NIC	Minimum 2 Nos. of Dedicated 1 Gbps Ethernet adapter and 2 meters CAT 6 Cable	
10.	USB	Minimum 2 Port	
11.	FC HBA	Minimum 2 Nos of 16Gbps FC Host Bus Adapters (HBA) Ports for SAN Connectivity (required to connect active - active connectivity with proposed San Switch to create VM from proposed Storage)	
12.	Remote Management	Dedicate port connectivity	
13.	Form Factor	Rack Server up to 3U	
14.	OS Support & Hypervisor Support	All Kind of x86 & x86_64 OS (Windows 2016 Server Standard edition or later, etc). Hypervisor Support (ESXI, Hyper-V, KVM, OVM etc)	
15.	Certification	a) Certified for Windows Server 2016 or later b) IPv6	
16.	Drivers/ Accessories/ Others	Required Installation Media, Kit, downloadable drivers and cables to be provided.	
17.	Software Compatibility	.net Framework 4.5 and above	

**F. Technical Specifications of Servers (7 Nos. at DC and 5 Nos. at DRC):**

**1. Technical Specifications of Application and Web Server (2 Nos. at DC and 4 Nos. at DRC)**

Sl. No.	Particulars	Detailed Configuration	Bidder's Compliance (Yes/No)
1.	Mention Make and Model		



2.	Processor	Intel® Xeon® Silver 4110 Processor (8 Core, 2.10 GHz Base Frequency, 11 MB L3 Cache) or higher Should be scalable to 2 CPUs socket	
3.	Chipset	Suitable Server Class Motherboard and Chipset	
4.	RAM	Minimum 32 GB DDR4 RAM and upgradable up to at least 128 GB	
5.	HDD	Minimum usable capacity of 1 TB in RAID 5 Configuration.	
6.	HDD Type	SSD Disks with minimum 3 DWPD	
7.	Raid	RAID controller with minimum 1 GB cache	
8.	HDD Bays	2.5" backplane for minimum 6 drives.	
9.	NIC	Minimum 2 Nos. of Dedicated 1 Gbps Ethernet adapter and 2 meters CAT 6 Cable	
10.	USB	Minimum 2 Port	
11.	FC HBA	Minimum 2 Nos of 16Gbps FC Host Bus Adapters (HBA) Ports for SAN Connectivity (required to connect active - active connectivity with proposed San Switch to create VM from proposed Storage)	
12.	Remote Management	Dedicate port connectivity	
13.	Form Factor	Rack Server up to 2U	
14.	OS Support & Hypervisor Support	All Kind of x86 & x86_64 OS (RHEL 7.0 or latest compatible). Hypervisor Support (ESXI, Hyper-V, KVM etc)	
15.	Certification	a) RHEL Server 7.0 or later b) IPv6	
16.	Drivers/ Accessories/ Others	Required Installation Media, Kit, downloadable drivers and cables to be provided.	
17.	Software Compatibility	Java 1.8	

**2. Technical Specifications UAT Application and Web Server (4 nos. at DC )**

Sl. No.	Particulars	Detailed Configuration	Bidder's Compliance (Yes/No)
1.	Mention Make and Model		
2.	Processor	Intel® Xeon® Silver 4112 Processor (4 Core, 2.60 GHz Base Frequency, 8.25 L3 Cache) or higher Should be scalable to 2 CPUs socket	
3.	Chipset	Suitable Server Class Motherboard and Chipset	
4.	RAM	Minimum 32 GB DDR4 RAM and upgradable up to at least 128 GB	
5.	HDD	Minimum usable capacity of 1 TB in RAID 5 Configuration.	
6.	HDD Type	SSD Disks with minimum 3 DWPD	
7.	Raid	RAID controller with minimum 1 GB cache	
8.	HDD Bays	2.5" backplane for minimum 6 drives.	
9.	NIC	Minimum 2 Nos. of Dedicated 1 Gbps Ethernet adapter and 2 meters CAT 6 Cable	
10.	USB	Minimum 2 Port	
11.	FC HBA	Minimum 2 Nos of 16Gbps FC Host Bus Adapters (HBA) Ports for SAN Connectivity (required to connect active - active connectivity with proposed San Switch to create VM from proposed Storage)	





12.	Remote Management	Dedicate port connectivity	
13.	Form Factor	Rack Server up to 2U	
14.	OS Support & Hypervisor Support	All Kind of x86 & x86_64 OS (RHEL 7.0 or latest compatible). Hypervisor Support (ESXI, Hyper-V, KVM etc)	
15.	Drivers/ Accessories/ Others	a) RHEL Server 7.0 or later b) IPv6	
16.	Certification	Required Installation Media, Kit, downloadable drivers and cables to be provided.	
17.	Software Compatibility	Java 1.8	

**3. Technical Specifications Reporting Server (1 no. at DC and 1 no. in DRC)**

Sl. No.	Particulars	Detailed Configuration	Bidder's Compliance (Yes/No)
1.	Mention Make and Model		
2.	Processor	Intel® Xeon® Gold 6130 Processor (16 Core, 2.10 GHz Base Frequency, 22 MB L3 Cache) or higher Should be scalable to 2 CPUs socket	
3.	Chipset	Suitable Server Class Motherboard and Chipset	
4.	RAM	Minimum 32 GB DDR4 RAM and upgradable up to at least 128 GB	
5.	HDD	Minimum usable capacity of 2 TB in RAID 5 Configuration.	
6.	HDD Type	SSD Disks with minimum 3 DWPD	
7.	Raid	RAID controller with minimum 1 GB cache	
8.	HDD Bays	2.5" backplane for minimum 6 drives.	
9.	NIC	Minimum 2 Nos. of Dedicated 1 Gbps Ethernet adapter and 2 meters CAT 6 Cable	
10.	USB	Minimum 2 Port	
11.	FC HBA	Minimum 2 Nos of 16Gbps FC Host Bus Adapters (HBA) Ports for SAN Connectivity (required to connect active - active connectivity with proposed San Switch to create VM from proposed Storage)	
12.	Remote Management	Dedicate port connectivity	
13.	Form Factor	Rack Server up to 2U	
14.	OS Support & Hypervisor Support	All Kind of x86 & x86_64 OS (RHEL 7.0 or latest compatible). Hypervisor Support (ESXI, Hyper-V, KVM etc)	
15.	Drivers/ Accessories/ Others	a) RHEL Server 7.0 or later b) IPv6	
16.	Certification	Required Installation Media, Kit, downloadable drivers and cables to be provided.	
17.	Software Compatibility	Java 1.8	



**G. Technical Specifications of Servers (9 Nos. at DC and 6 Nos. at DRC):**

**1. Technical Specifications of Application and Web Server (4 Nos. at DC and 4 Nos. at DRC):**

Sl. No.	Particulars	Detailed Configuration	Bidder's Compliance (Yes/No)
1.	Mention Make and Model		
2.	Processor	Intel® Xeon® Silver 4110 Processor (8 Core, 2.10 GHz Base Frequency, 11 MB L3 Cache) or higher Should be scalable to 2 CPUs socket	
3.	Chipset	Suitable Server Class Motherboard and Chipset	
4.	RAM	Minimum 64 GB DDR4 RAM and upgradable up to at least 128 GB	
5.	HDD	Minimum usable capacity of 1 TB in RAID 5 Configuration.	
6.	HDD Type	SSD Disks with minimum 3 DWPD	
7.	Raid	RAID controller with minimum 1 GB cache	
8.	HDD Bays	2.5" backplane for minimum 6 drives.	
9.	NIC	Minimum 2 Nos. of Dedicated 1 Gbps Ethernet adapter and 3 meters CAT 6 Cable	
10.	USB	Minimum 2 Ports	
11.	FC HBA	Minimum 2 Nos of 16Gbps FC Host Bus Adapters (HBA) Ports for SAN Connectivity (required to connect active - active connectivity with proposed San Switch to create VM from proposed Storage)	
12.	Remote Management	Dedicate port connectivity	
13.	Form Factor	Rack Server up to 2U	
14.	OS Support	All Kind of x86 & x86_64 OS (Windows 2016 Server Standard edition or later, etc).	
15.	Certification	a) Certified for Windows Server 2016 or later b) IPv6	
16.	Drivers/Accessories / Others	Required Installation Media, Kit, downloadable drivers and cables to be provided.	
17.	Software Compatibility	.net Framework 4.5 and above IIS 8.0 and above	

**2. Technical Specifications Database Servers (2 nos. at DC and 2 Nos. at DRC):**

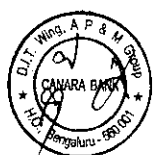
Sl. No.	Particulars	Detailed Configuration	Bidder's Compliance (Yes/No)
1.	Mention Make and Model		
2.	Processor	Intel® Xeon® Silver 4110 Processor (8 Core, 2.10 GHz Base Frequency, 11 MB L3 Cache) or higher Should be scalable to 2 CPUs socket	
3.	Chipset	Suitable Server Class Motherboard and Chipset	
4.	RAM	Minimum 128 GB DDR4	
5.	HDD	Minimum usable capacity of 2 TB in RAID5 Configuration.	
6.	HDD Type	SSD Disks with minimum 3 DWPD	



7.	Raid	RAID controller with minimum 1 GB cache	
8.	HDD Bays	2.5" backplane for minimum 6 drives.	
9.	NIC	Minimum 2 Nos. of Dedicated 1 Gbps Ethernet adapter and 3 meters CAT 6 Cable	
10.	USB	Minimum 2 Ports	
11.	FC HBA	Minimum 2 Nos of 16Gbps FC Host Bus Adapters (HBA) Ports for SAN Connectivity (required to connect active - active connectivity with proposed San Switch to create VM from proposed Storage)	
12.	Remote Management	Dedicate port connectivity	
13.	Form Factor	Rack Server up to 2U	
14.	OS Support	RHEL 7.2 and higher	
15.	Drivers/Accessories/Others	a) Certified for RHEL 7.2 or later b) IPv6	
16.	Certification	Required Installation Media, Kit, downloadable drivers and cables to be provided.	
17.	Software Compatibility	Oracle 11 g and higher	

3. Technical Specifications Application & Web Servers for UAT (2 nos. at DC)

Sl. No.	Particulars	Detailed Configuration	Bidder's Compliance (Yes/No)
1.	Mention Make and Model		
2.	Processor	Intel® Xeon® Silver 4112 Processor (4 Core, 2.60 GHz Base Frequency, 8.25 L3 Cache) or higher Should be scalable to 2 CPUs socket	
3.	Chipset	Suitable Server Class Motherboard and Chipset	
4.	RAM	Minimum 64 GB DDR4	
5.	HDD	Minimum usable capacity of 500 GB in RAID5 Configuration.	
6.	HDD Type	SSD Disks with minimum 3 DWPD	
7.	Raid	RAID controller with minimum 1 GB cache	
8.	HDD Bays	2.5" backplane for minimum 6 drives.	
9.	NIC	Minimum 2 Nos. of Dedicated 1 Gbps Ethernet adapter and 3 meters CAT 6 Cable	
10.	USB	Minimum 2 Ports	
11.	FC HBA	Minimum 2 Nos of 16Gbps FC Host Bus Adapters (HBA) Ports for SAN Connectivity (required to connect active - active connectivity with proposed San Switch to create VM from proposed Storage)	
12.	Remote Management	Dedicate port connectivity	
13.	Form Factor	Rack Server up to 2U	
14.	OS Support	All Kind of x86 & x86_64 OS (Windows 2016 Server Standard edition or later, etc).	
15.	Drivers/Accessories/O	a) Certified for Windows Server 2016 or later b) IPv6	



	thers		
16.	Certification	Required Installation Media, Kit, downloadable drivers and cables to be provided.	
17.	Software Compatibility	.net Framework 4.5 and above IIS 8.0 and above	

**4. Technical Specifications Database Server for UAT (1 no. at DC)**

Sl. No.	Particulars	Detailed Configuration	Bidder's Compliance (Yes/No)
1.	Mention Make and Model		
2.	Processor	Intel® Xeon® Silver 4112 Processor (4 Core, 2.60 GHz Base Frequency, 8.25 L3 Cache) or higher Should be scalable to 2 CPUs socket	
3.	Chipset	Suitable Server Class Motherboard and Chipset	
4.	RAM	Minimum 64 GB DDR4	
5.	HDD	Minimum usable capacity of 500 GB in RAID5 Configuration.	
6.	HDD Type	SSD Disks with minimum 3 DWPD	
7.	Raid	RAID controller with minimum 1 GB cache	
8.	HDD Bays	2.5" backplane for minimum 6 drives.	
9.	NIC	Minimum 2 Nos. of Dedicated 1 Gbps Ethernet adapter and 3 meters CAT 6 Cable	
10.	USB	Minimum 2 Ports	
11.	FC HBA	Minimum 2 Nos of 16Gbps FC Host Bus Adapters (HBA) Ports for SAN Connectivity (required to connect active - active connectivity with proposed San Switch to create VM from proposed Storage)	
12.	Remote Management	Dedicate port connectivity	
13.	Form Factor	Rack Server up to 2U	
14.	OS Support	RHEL 7.2 and higher	
15.	Drivers/ Accessories/ Others	a) Certified for RHEL 7.2 or later b) IPv6	
16.	Certification	Required Installation Media, Kit, downloadable drivers and cables to be provided.	
17.	Software Compatibility	Oracle 11 g and higher	

**H. Technical Specifications of Server (4 Nos. at DC and 4 Nos. at DRC):**

**1. Technical Specifications of Application Server (2 Nos. at DC and 2 Nos. at DRC):**

Sl. No.	Particulars	Detailed Configuration	Bidder's Compliance (Yes/No)
1.	Mention Make and Model		
2.	Processor	Intel® Xeon® Silver 4110 Processor (8 Core, 2.10 GHz Base Frequency, 11MB L3 Cache) or higher Should be scalable to 2 CPUs socket	



3.	Chipset	Suitable Server Class Motherboard and Chipset	
4.	RAM	Minimum 32 GB DDR4 RAM and upgradable up to at least 128 GB	
5.	HDD	Minimum usable capacity of 1 TB in RAID 5 Configuration.	
6.	HDD Type	SSD Disks with minimum 3 DWPD	
7.	Raid	RAID controller with minimum 1 GB cache	
8.	HDD Bays	2.5" backplane for minimum 6 drives.	
9.	NIC	Minimum 2 Nos. of Dedicated 1 Gbps Ethernet adapter and 2 meters CAT 6 Cable	
10.	USB	Minimum 1 Port	
11.	FC HBA	Minimum 2 Nos of 16Gbps FC Host Bus Adapters (HBA) Ports for SAN Connectivity (required to connect active - active connectivity with proposed San Switch to create VM from proposed Storage)	
12.	Remote Management	Dedicate port connectivity	
13.	Form Factor	Rack Server up to 2U	
14.	OS Support & Hypervisor Support	All Kind of x86 & x86_64 OS (Windows 2012 Server Standard edition or later, etc). Hypervisor Support for virtualization.	
15.	Certification	a) Certified for Windows Server 2012 R2 or later b) IPv6	
16.	Drivers/ Accessories/ Others	Required Installation Media, Kit, downloadable drivers and cables to be provided.	
17.	Software Compatibility	.net Framework 4.5 and above	

2. Technical Specifications Web Server (2 nos. at DC and 2 Nos. at DR)

Sl. No.	Particulars	Detailed Configuration	Bidder's Compliance (Yes/No)
1.	<b>Mention Make and Model</b>		
2.	Processor	Intel® Xeon® Silver 4110 Processor (8 Core, 2.10 GHz Base Frequency, 11MB L3 Cache) or higher Should be scalable to 2 CPUs socket	
3.	Chipset	Suitable Server Class Motherboard and Chipset	
4.	RAM	Minimum 32 GB DDR4 RAM and upgradable up to at least 128 GB	
5.	HDD	Minimum usable capacity of 1 TB in RAID 5 Configuration.	
6.	HDD Type	SSD Disks with minimum 3 DWPD	
7.	Raid	RAID controller with minimum 1 GB cache	
8.	HDD Bays	2.5" backplane for minimum 6 drives.	
9.	NIC	Minimum 2 Nos. of Dedicated 1 Gbps Ethernet adapter and 2 meters CAT 6 Cable	
10.	USB	Minimum 1 Port	
11.	FC HBA	Minimum 2 Nos of 16Gbps FC Host Bus Adapters (HBA) Ports for SAN Connectivity (required to connect active - active connectivity with proposed San Switch to create VM from proposed Storage)	



12.	Remote Management	Dedicate port connectivity	
13.	Form Factor	Rack Server up to 2U	
14.	OS Support & Hypervisor Support	All Kind of x86 & x86_64 OS (Windows 2012 Server Standard edition or later, etc). Hypervisor Support for virtualization.	
15.	Certification	a) Certified for Windows Server 2012R2 or later b) IPv6	
16.	Drivers/ Accessories/ Others	Required Installation Media, Kit, downloadable drivers and cables to be provided.	
17.	Software Compatibility	.net Framework 4.5 and above	

I. Technical Specifications of Servers (4 Nos. at DC and 4 Nos. at DR):

1. Technical Specifications of Application Server (2 Nos. at DC and 2 Nos. at DRC):

Sl. No.	Particulars	Detailed Configuration	Bidder's Compliance (Yes/No)
1.	Mention Make and Model		
2.	Processor	Intel® Xeon® Silver Processor 4110 (8 Core, 2.10 GHz Base Frequency, 8.0 GT/s, 11MB L3 Cache) or higher Should be scalable to 2 CPUs socket	
3.	Chipset	Suitable Server Class Motherboard and Chipset	
4.	RAM	Minimum 64 GB DDR4 RAM and upgradable up to at least 128 GB	
5.	HDD	Minimum usable capacity of 1 TB in RAID 5 Configuration.	
6.	HDD Type	SSD Disks with minimum 3 DWPD	
7.	Raid	RAID controller with minimum 1 GB cache	
8.	HDD Bays	2.5" backplane for minimum 6 drives.	
9.	NIC	Minimum 2 Nos. of Dedicated 1 Gbps Ethernet adapter and 2 meters CAT 6 Cable	
10.	USB	Minimum 1 Port	
11.	FC HBA	Minimum 2 Nos of 16Gbps FC Host Bus Adapters (HBA) Ports for SAN Connectivity (required to connect active - active connectivity with proposed San Switch to create VM from proposed Storage)	
12.	Remote Management	Dedicate port connectivity	
13.	Form Factor	Rack Server up to 2U	
14.	OS Support & Hypervisor Support	All Kind of x86 & x86_64 OS (Windows 2016 Server Standard edition or later, etc). Hypervisor Support (ESXI, Hyper-V, KVM etc)	
15.	Certification	a) Certified for Windows Server 2016 or later b) IPv6	
16.	Drivers/ Accessories/ Others	Required Installation Media, Kit, downloadable drivers and cables to be provided.	
17.	Software Compatibility	.net Framework 4.5 and above	



**2. Technical Specifications Web Server (2 nos. at DC and 2 Nos. at DR)**

Sl. No.	Particulars	Detailed Configuration	Bidder's Compliance (Yes/No)
1.	<b>Mention Make and Model</b>		
2.	<b>Processor</b>	Intel® Xeon® Silver Processor 4110 (8 Core, 2.10 GHz Base Frequency, 8.0 GT/s, 11MB L3 Cache) or higher Should be scalable to 2 CPUs socket	
3.	<b>Chipset</b>	Suitable Server Class Motherboard and Chipset	
4.	<b>RAM</b>	Minimum 32 GB DDR4 and upgradable up to at least 128 GB	
5.	<b>HDD</b>	Minimum usable capacity of 250 GB in RAID 0 Configuration.	
6.	<b>HDD Type</b>	SSD Disks with minimum 3 DWPD	
7.	<b>Raid</b>	RAID controller with minimum 1 GB cache	
8.	<b>HDD Bays</b>	2.5" backplane for minimum 6 drives.	
9.	<b>NIC</b>	Minimum 2 Nos. of Dedicated 1 Gbps Ethernet adapter and 2 meters CAT 6 Cable	
10.	<b>USB</b>	Minimum 1 Port	
11.	<b>FC HBA</b>	Minimum 2 Nos of 16Gbps FC Host Bus Adapters (HBA) Ports for SAN Connectivity (required to connect active - active connectivity with proposed San Switch to create VM from proposed Storage)	
12.	<b>Remote Management</b>	Dedicate port connectivity	
13.	<b>Form Factor</b>	Rack Server up to 2U	
14.	<b>OS Support &amp; Hypervisor Support</b>	All Kind of x86 & x86_64 OS (Windows 2012 Server Standard Edition or later, etc). Hypervisor Support (ESXI, Hyper-V, KVM etc)	
15.	<b>Drivers/ Accessories/ Others</b>	a) Certified for Windows Server 2012 or later b) IPv6	
16.	<b>Certification</b>	IIS 8.0 and above, IE8 and above, .net Framework 4.5 and above	

**J. Technical Specifications Standard 42U Racks (3 nos. at DC and 3 Nos. at DR):**

Sl. No.	Detailed Configuration	Bidder's Compliance (Yes/No)
1.	<b>Mention Make and Model</b>	
2.	Enclosure with additional Shock pallet and loading ramps.	
3.	4 interior vertical posts with unthreaded square hole openings.	
4.	Massive front to rear ventilation capacity.	
5.	3000 lb stationary/2250 lb rolling load capacity.	
6.	Locking, removable, reversible front and rear doors.	
7.	Locking, removable side panels keyed alike with doors.	
8.	PDU (primary and redundant) with minimum 20 sockets in each PDU for every Rack.	
9.	Complete shipping and assembling should be taken care by the successful Bidder.	



**K. Technical Specifications of Operating Software Items (only Paper License):**

Sl. No.	Software/Operating System	Particulars	Bidder's Compliance (Yes/No)
1.	Windows Server 2016 Standard OS down gradable to 2012	28 Server License (Each server is having maximum 16 Core)	
2.	Windows Server 2016 Standard OS down gradable to 2012	6 Server License (Each server is having 2 processor with 16 Core each)	
3.	RHEL 7.0 Enterprise Server Operating Systems	13 No.s of Server License	
4.	RHEL 7.2 Enterprise Server Operating Systems	7 No.s of Server License	

Date

Signature with seal

Name :

Designation :

