



Amendment-2 to "RFP 22/2017-18 dated 17/11/2017 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.	51 to 58	<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: 05/12/2017  
Place: Bengaluru

  
Deputy General Manager  




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

SUB: RFP for Supply, Installation, Integration and Maintenance of Servers and Other Items.  
Ref: Your RFP 22/2017-18 dated 17/11/2017

**Note:**

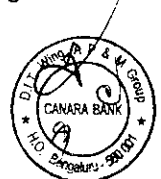
1. The Bidder shall specifically mention the make and model of the items offered for all the requirements in terms of RFP without fail, failing which the Bid is liable for rejection.
2. If the Bidder feels that certain features offered are superior to what has been specified by the Bank, it shall be 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 Multi-node Server Chassis (3 Nos. at DC and 3 at DR)**

Sl. No.	Particulars	Detailed Configuration	Bidder's Compliance (Yes/No)
1.	Mention Make and Model		
2.	Chassis	Rack mountable 4 Half Node Server Chassis	
3.	Power Supply	Dual Hot Plug Single Phase, 16 A, 220-250 V	
4.	Form Factor	Up to 2U	

**B. Technical Specifications of Application Server (2 Nos. at DC and 2 Nos. at DR)**

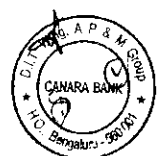
Sl. No.	Particulars	Detailed Configuration	Bidder's Compliance (Yes/No)
1.	Mention Make and Model		
2.	Processor	Intel® Xeon® Processor E5-2623 v4 (4 Core, 2.60 GHz Base Frequency, 8.0 GT/s, 10M Smart Cache) or higher Should be scalable to 2 CPUs socket	
3.	Chipset	Suitable Server Class Motherboard and Chipset	
4.	RAM	Minimum 32 GB DDR4 RAM and upgradable up to at least 64 GB	
5.	HDD	Minimum usable capacity of 300 GB in RAID 1 Configuration.	
6.	HDD Type	SSD Disks	
7.	Raid	RAID controller with minimum 1 GB cache	
8.	HDD Bays	2.5" backplane for minimum 2 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 1 Nos. of Dual Port 8 Gig Fiber Channel HBA	
12.	Remote Management	Dedicate port connectivity	



13.	Form Factor	Half Node Server	
14.	OS Support & Hypervisor Support	All Kind of x86 & x86_64 OS (Windows 2012 R2 Server Standard edition or later, etc). Hypervisor Support (ESXI, Hyper-V, KVM etc)	
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	

**C. Technical Specifications of Database Servers (2 Nos. at DC and 2 Nos. at DR)**

Sl. No.	Particulars	Detailed Configuration	Bidder's Compliance (Yes/No)
1.	Mention Make and Model		
2.	Processor	Intel® Xeon® Processor E5-2643 v4 (6 Core, 3.40 GHz Base Frequency, 9.6 GT/s, 20M Smart 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 64 GB	
5.	HDD	Minimum usable capacity of 800 GB in RAID 1 Configuration.	
6.	HDD Type	SSD Disks	
7.	Raid	RAID controller with minimum 1 GB cache	
8.	HDD Bays	2.5" backplane for minimum 2 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 1 Nos. of Dual Port 8 Gig Fiber Channel HBA	
12.	SAS HBA	Minimum 1 Nos. of Dual Port 6 Gig SAS HBA for connecting Tape Drive	
13.	Remote Management	Dedicate port connectivity	
14.	Form Factor	Half Node Server	
15.	OS Support & Hypervisor Support	All Kind of x86 & x86_64 OS (Windows 2012 R2 Server Standard edition or later, etc). Hypervisor Support (ESXI, Hyper-V, KVM etc)	
16.	Certification	a) Certified for Latest RHEL 7.0 or later b) IPv6	
17.	Drivers/ Accessories/ Others	Required Installation Media, Kit, downloadable drivers and cables to be provided.	
18.	Software Compatibility	Oracle12c or later	
19.	Tape Drive	External LTO 7 or Later Tape drive should be provided with required SAS Cable and to be connected though SAS card.	

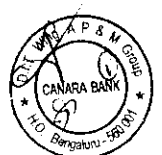


**D. Technical Specifications of UAT Server (1 No. at DC)**

Sl. No.	Particulars	Detailed Configuration	Bidder's Compliance (Yes/No)
1.	Mention Make and Model		
2.	Processor	Intel® Xeon® Processor E5-2623 v4 (4 Core, 2.60 GHz Base Frequency, 8.0 GT/s, 10M Smart 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 64 GB	
5.	HDD	Minimum usable capacity of 1 TB in RAID 1 Configuration.	
6.	HDD Type	SSD Disks	
7.	Raid	RAID controller with minimum 1 GB cache	
8.	HDD Bays	2.5" backplane for minimum 2 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 1 Nos. of Dual Port 8 Gig Fiber Channel HBA	
12.	Remote Management	Dedicate port connectivity	
13.	Form Factor	Half Node Server	
14.	OS Support & Hypervisor Support	All Kind of x86 & x86_64 OS (Windows 2012 R2 Server Standard edition or later, etc). Hypervisor Support (ESXI, Hyper-V, KVM etc)	
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	Oracle12c or later	

**E. Technical Specifications of Application Server (1 No. at DC and 1 No. at DR)**

Sl. No.	Particulars	Detailed Configuration	Bidder's Compliance (Yes/No)
1.	Mention Make and Model		
2.	Processor	Intel® Xeon® Processor E5-2620 v4 (8 Core, 2.10 GHz Base Frequency, 8.0 GT/s, 20M Smart 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 1 Configuration.	
6.	HDD Type	SSD Disks	
7.	Raid	RAID controller with minimum 1 GB cache	
8.	HDD Bays	2.5" backplane for minimum 2 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 1 Nos. of Dual Port 8 Gig Fiber Channel HBA	
12.	Remote Management	Dedicate port connectivity	
13.	Form Factor	Half Node Server	
14.	OS Support & Hypervisor Support	All Kind of x86 & x86_64 OS (Windows 2012 R2 Server Standard edition or later, etc). Hypervisor Support (ESXI, Hyper-V, KVM etc)	
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	

**F. Technical Specifications of DMZ Server (1 No. at DC and 1 No. at DR)**

Sl. No.	Particulars	Detailed Configuration	Bidder's Compliance (Yes/No)
1.	Mention Make and Model		
2.	Processor	Intel® Xeon® Processor E5-2623 v4 (4 Core, 2.60 GHz Base Frequency, 8.0 GT/s, 10M Smart Cache) or higher Should be scalable to 2 CPUs socket	
3.	Chipset	Suitable Server Class Motherboard and Chipset	
4.	RAM	Minimum 32 GB DDR4 and upgradable up to at least 128 GB	
5.	HDD	Minimum usable capacity of 250 GB in RAID 1 Configuration.	
6.	HDD Type	SSD Disks	
7.	Raid	RAID controller with minimum 1 GB cache	
8.	HDD Bays	2.5" backplane for minimum 2 drives.	
9.	NIC	Minimum 2 Nos. of Dedicated 1 Gbps Ethernet adapter and 20 meters CAT 6 Cable	
10.	USB	Minimum 1 Port	
11.	FC HBA	Minimum 1 Nos. of Dual Port 8 Gig Fiber Channel HBA	
12.	Remote Management	Dedicate port connectivity	
13.	Form Factor	Half Node Server	
14.	OS Support & Hypervisor Support	All Kind of x86 & x86_64 OS (Windows 2012 R2 Server Standard edition or later, etc). Hypervisor Support (ESXI, Hyper-V, KVM etc)	
15.	Drivers/ Accessories/ Others	a) Certified for Windows Server 2012 R2 or later b) IPv6	
16.	Certification	Required Installation Media, Kit, downloadable drivers and cables to be provided.	



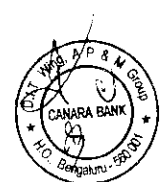
17.	Software Compatibility	IIS 8.0 and above IE8 and above .net Framework 4.5 and above	
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**G. Technical Specifications of Web Servers (1 No. at DC and 1 No. at DR)**

Sl. No.	Particulars	Detailed Configuration	Bidder's Compliance (Yes/No)
1.	Mention Make and Model		
2.	Processor	Intel® Xeon® Processor E5-2620 v4 (8 Core, 2.10 GHz Base Frequency, 8.0 GT/s, 20M Smart 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 1 Configuration.	
6.	HDD Type	SSD Disks	
7.	Raid	RAID controller with minimum 1 GB cache	
8.	HDD Bays	2.5" backplane for minimum 2 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 1 Nos. of Dual Port 8 Gig Fiber Channel HBA	
12.	Remote Management	Dedicate port connectivity	
13.	Form Factor	Half Node Server	
14.	OS Support & Hypervisor Support	All Kind of x86 & x86_64 OS (Windows 2012 R2 Server Standard edition or later, etc). Hypervisor Support (ESXI, Hyper-V, KVM etc)	
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	

**H. Technical Specifications of Database Servers (1 No. at DC and 1 No. at DR)**

Sl. No.	Particulars	Detailed Configuration	Bidder's Compliance (Yes/No)
1.	Mention Make and Model		
2.	Processor	Intel® Xeon® Processor E5-2620 v4 (8 Core, 2.10 GHz Base Frequency, 8.0 GT/s, 20M Smart Cache) or higher Should be scalable to 2 CPUs socket	
3.	Chipset	Suitable Server Class Motherboard and Chipset	
4.	RAM	Minimum 128 GB DDR4 RAM and upgradable up to at least 256 GB	
5.	HDD	Minimum usable capacity of 1 TB in RAID 1 Configuration.	



6.	HDD Type	SSD Disks	
7.	Raid	RAID controller with minimum 1 GB cache	
8.	HDD Bays	2.5" backplane for minimum 2 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 1 Nos. of Dual Port 8 Gig Fiber Channel HBA	
12.	SAS HBA	Minimum 1 Nos. of Dual Port 6 Gig SAS HBA for connecting Tape Drive	
13.	Remote Management	Dedicate port connectivity	
14.	Form Factor	Half Node Server	
15.	OS Support & Hypervisor Support	All Kind of x86 & x86_64 OS (Windows 2012 R2 Server Standard edition or later, etc). Hypervisor Support (ESXI, Hyper-V, KVM etc)	
16.	Certification	a) Certified for Latest RHEL 7.0 or later b) IPv6	
17.	Drivers/ Accessories/ Others	Required Installation Media, Kit, downloadable drivers and cables to be provided.	
18.	Software Compatibility	Oracle 12c or above	
19.	Tape Drive	External LTO 7 or Later Tape drive should be provided with required SAS Cable and to be connected through SAS card.	

**I. Technical Specifications of Application Server (1 No. at DC and 1 No. at DR)**

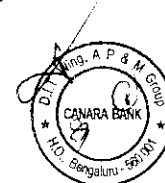
Sl. No.	Particulars	Detailed Configuration	Bidder's Compliance (Yes/No)
1.	Mention Make and Model		
2.	Processor	Intel® Xeon® Processor E5-2650 v4 (12 Core, 2.20 GHz Base Frequency, 9.6 GT/s, 30M Smart Cache) or higher Should be scalable to 2 CPUs socket	
3.	Chipset	Suitable Server Class Motherboard and Chipset	
4.	RAM	Minimum 32 GB DDR4 and upgradable up to at least 128 GB	
5.	HDD	Minimum usable capacity of 400 GB in RAID 1 Configuration.	
6.	HDD Type	SSD Disks	
7.	Raid	RAID controller with minimum 1 GB cache	
8.	HDD Bays	2.5" backplane for minimum 2 drives.	
9.	NIC	Minimum 2 Nos. of Dedicated 1 Gbps Ethernet adapter and 2 meters CAT 6 Cable	
10.	USB	Minimum 1 Ports	
11.	FC HBA	Minimum 1 Nos. of Dual Port 8 Gig Fiber Channel HBA	
12.	Remote Management	Dedicate port connectivity	
13.	Form Factor	Half Node Server	
14.	OS Support & Hypervisor	All Kind of x86 & x86_64 OS (Windows 2012 R2 Server Standard edition or later, etc).	



	Support	Hypervisor Support (ESXI, Hyper-V, KVM etc)	
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	Apache HTTP Server or Java Complaint HTTP Server Oracle 11g or above Java (JDK) 1.7 or above Tomcat 7.x	

**J. Technical Specifications of Database Server (1 No. at DC and 1 No. at DR)**

Sl. No.	Particulars	Detailed Configuration	Bidder's Compliance (Yes/No)
1.	Mention Make and Model		
2.	Processor	Intel® Xeon® Processor E5-2650 v4 (12 Core, 2.20 GHz Base Frequency, 9.6 GT/s, 30M Smart Cache) or higher Should be scalable to 2 CPUs socket	
3.	Chipset	Suitable Server Class Motherboard and Chipset	
4.	RAM	Minimum 32 GB DDR4 and upgradable up to at least 128 GB	
5.	HDD	Minimum usable capacity of 500 GB in RAID 1 Configuration.	
6.	HDD Type	SSD Disks	
7.	Raid	RAID controller with minimum 1 GB cache	
8.	HDD Bays	2.5" backplane for minimum 2 drives.	
9.	NIC	Minimum 2 Nos. of Dedicated 1 Gbps Ethernet adapter and 2 meters CAT 6 Cable	
10.	USB	Minimum 1 Ports	
11.	FC HBA	Minimum 1 Nos. of Dual Port 8 Gig Fiber Channel HBA	
12.	SAS HBA	Minimum 1 Nos. of Dual Port 6 Gig SAS HBA for connecting Tape Drive	
13.	Remote Management	Dedicate port connectivity	
14.	Form Factor	Half Node Server	
15.	OS Support & Hypervisor Support	All Kind of x86 & x86_64 OS (Windows 2012 R2 Server Standard edition or later, etc). Hypervisor Support (ESXI, Hyper-V, KVM etc)	
16.	Drivers/ Accessories/ Others	a) Certified for Windows Server 2012 R2 or later b) IPv6	
17.	Certification	Required Installation Media, Kit, downloadable drivers and cables to be provided.	
18.	Software Compatibility	Oracle 11g or above	
19.	Tape Drive	External LTO 7 or Later Tape drive should be provided with required SAS Cable and to be connected though SAS card.	





**K. Technical Specifications of APP-DB UAT Server (1 No. at DC)**

Sl. No.	Particulars	Detailed Configuration	Bidder's Compliance (Yes/No)
1.	Mention Make and Model		
2.	Processor	Intel® Xeon® Processor E5-2620 v4 (8 Core, 2.10 GHz Base Frequency, 8 GT/s, 20M Smart Cache) or higher should be scalable to 2 CPUs socket	
3.	Chipset	Suitable Server Class Motherboard and Chipset	
4.	RAM	Minimum 24 GB DDR4 and upgradable up to at least 128 GB	
5.	HDD	Minimum usable capacity of 500 GB in RAID 1 Configuration.	
6.	HDD Type	SSD Disks	
7.	Raid	RAID controller with minimum 1 GB cache	
8.	HDD Bays	2.5" backplane for minimum 2 drives.	
9.	NIC	Minimum 2 Nos. of Dedicated 1 Gbps Ethernet adapter and 2 meters CAT 6 Cable	
10.	USB	Minimum 1 Ports	
11.	FC HBA	Minimum 1 Nos. of Dual Port 8 Gig Fiber Channel HBA	
12.	Remote Management	Dedicate port connectivity	
13.	Form Factor	Half Node Server	
14.	OS Support & Hypervisor Support	All Kind of x86 & x86_64 OS (Windows 2012 R2 Server Standard edition or later, etc). Hypervisor Support (ESXI, Hyper-V, KVM etc)	
15.	Drivers/ Accessories/ Others	a) Certified for Windows Server 2012 R2 or later b) IPv6	
16.	Certification	Required Installation Media, Kit, downloadable drivers and cables to be provided.	
17.	Software Compatibility	Oracle 11g or above, Java (JDK) 1.7 or above, Apache Tomcat 7.0	

**L. Technical Specifications of Software Items**

Sl. No.	Software/Operating System	Particulars	Bidder's Compliance (Yes/No)
1.	Windows Server 2016 Standard OS down gradable to 2012	16 Servers (for the cores mentioned in Annexure-10-B,D,E,F,G,I and K)	
2.	RHEL 7.0 Enterprise Server Operating Systems	6 Nos of Server License	

Date

Signature with seal

Name :

Designation :

