UCO BANK
Department of Information Technology

RFP for Supply, Installation and Maintenance of Hardware, Software and Licenses for various Projects/Applications

RFP Ref. No. DIT/BPR & BTD/OA/5227/2018-19 Date: 25/02/2019

Pre-Bid Responses/ Clarifications to Queries raised by the Bidder(s), Amendments, Addendums and Corrigendum's

Sl No	RFP Page No	RFP Clause No	Original RFP Clause	Query sought/Suggestions of the Bidder	Response
1	8	Control Sheet	Last Date and Time for receipts of tender bids-22.03.2019 at 04:30 PM	Request to please extend the bid submission by 7 days	Extended till 17.04.2019 at 04:30 PM
2	10	3. Eligibility Criteria Point-2	The Bidder should have minimum annual turnover of Rs.50 Crores per year, during the last three financial years (i.e2015-16, 2016-17 & 2017-18).	This is complex environment & migration/ management has to be done by a vendor having strong background. Request you to modify the clause as: The Bidder should have minimum annual turnover of Rs.200 Crores per year, during the last three financial years (i.e2015-16, 2016-17 & 2017-18).	Clause stands as per RFP
3	10	PART-I 3.Eligibility Criteria Point-3	The Bidder should have net profit (PAT) in any two of the last three financial years. (i.e. 2015-16, 2016-17 & 2017-18)	Request you to change the same to "The Bidder should have net profit (PAT) in any one of the last three financial years. (i.e. 2015-16, 2016-17 & 2017-18) or Net worth Positive in last 3 years (i.e. 2015-16, 2016-17 & 2017-18)"	Clause stands as per RFP

4	10	Part-I 3. Eligibility Criteria Point no-5	The bidder should have supplied, installed, commissioned and maintained at least 10 Blade Servers and 10 Rack Mounted Servers with chassis/Enclosures in any PSU in India by them in Last three financial years. The bidder should supply the server / enclosure / SAN Storage and should support their services.	We understand the bidders can show multiple PSU orders, with cumulative - at least 10 Blade Servers and 10 Rack Mounted Servers with chassis/Enclosures	Clause modified as under: The bidder should have supplied, installed, commissioned and maintained at least 10 Blade Servers with chassis/Enclosures & 10 Rack mounted servers in at least one PSU in India in Last three financial year. The bidder should supply the server / enclosure / SAN Storage and should support their services.
5	10	Part-I 3. Eligibility Criteria Point no-5	The bidder should have supplied, installed, commissioned and maintained at least 10 Blade Servers and 10 Rack Mounted Servers with chassis/Enclosures in any PSU in India by them in Last three financial years. The bidder should supply the server / enclosure / SAN Storage and should support their services. Copy of purchase order and reference letters/ Certificates to be enclosed containing contact details of the signing authority of the masked purchase order/ authorization letter.	Due to the NDA with customers it is not possible to share the PO copies. We request the Bank to modify the clause on supporting documents as below: Copy of purchase order OR reference letters/ Certificates to be enclosed. यूको बैंक 🏛 UCO BANK	Clause Stands modified as: The bidder should have supplied, installed, commissioned and maintained at least 10 Blade Servers with chassis/Enclosures & 10 Rack mounted servers in at least one PSU in India in Last three financial year. The bidder should supply the server / enclosure / SAN Storage and should support their services. Copy of purchase order and reference letters/ Certificates to be enclosed containing contact details of the signing authority of the masked purchase order/ authorization letter.
6	10	Eligibility	There is no Clause on the eligibility of Facility management services provider	There is no clause on the Eligibility of Facility Management Services provider. This environment will host bank's critical applications & its uptime/performance will be important for Bank's business requirement. Request you to add a clause: The bidder must be providing Facilities management services of two Public Sector Banks of similar sizing having more than 1000 branches.	Clause stands as per RFP.
7	11	3. Eligibility Criteria - Point 6	Similar product offered of OEM should be installed and run in at least one PSU in India for at least One year. Copy of purchase order along with Satisfactory Client Certificate is to be submitted.	Due to the NDA with customers it is not possible to share the PO copies. We request the Bank to modify the clause on supporting documents as below: Copy of purchase order or Satisfactory Client Certificate is to be submitted.	Clause stands as per RFP.

8	10	Part-I 3. Eligibility Criteria Point no-5	The bidder should have supplied, installed, commissioned and maintained at least 10 Blade Servers and 10 Rack Mounted Servers with chassis/Enclosures in any PSU in India by them in Last three financial years. The bidder should supply the server / enclosure / SAN Storage and should support their services. Copy of purchase order and reference letters/ Certificates to be enclosed containing contact details of the signing authority of the masked purchase order/ authorization letter.	We request the bank to kindly amend the clause as: The bidder should have supplied, installed, commissioned and maintained at least 10 Blade Servers AND/OR 10 Rack Mounted Servers with chassis/Enclosures in any PSU in India by them in Last three financial year. The bidder should supply the server / enclosure / SAN Storage and should support their services. Copy of purchase order AND/OR reference letters/ Certificates to be enclosed containing contact details of the signing authority of the masked purchase order / authorization letter.	Clause modified as under: The bidder should have supplied, installed, commissioned and maintained at least 10 Blade Servers with chassis/Enclosures & 10 Rack mounted servers in at least one PSU in India in Last three financial year. The bidder should supply the server / enclosure / SAN Storage and should support their services. Copy of purchase order and reference letters/ Certificates to be enclosed containing contact details of the signing authority of the masked purchase order/ authorization letter.
				Kindly clarify the line: "The bidder should supply the server / enclosure / SAN Storage and should support their services." Is this a scope of work statement for this tender OR is does this mean that server enclosure/SAN Storage and support services should be a part of similar experience references shown against this qualification criteria?	
				Requirement is of 10 Blade Servers and 31 Rack servers. Hence request you to ask for experience with supply, installation, commissioning and maintenance of 5 Blade Servers and 10 Rack servers. We also request you to accept experience in renowned corporate enterprises too. Request you to modify the clause as follows: The bidder should have supplied, installed, commissioned and maintained at least 5 Blade Servers and 10 Rack Mounted Servers with chassis/Enclosures in any PSU/ Large corporate Organizations in India by them in Last three financial year. The bidder should supply the server / enclosure / SAN Storage and should support their services.	
				The bidder should have supplied, installed, commissioned and maintained at least 20 Rack/Blade Servers with chassis/Enclosures in any PSU in India by them in Last three financial years. The bidder should supply the server / enclosure / SAN Storage and should support their services. Copy of purchase order and reference letters/ Certificates to be enclosed containing contact details of the signing authority of the masked purchase order / authorization letter.	

8	11	Part-I 3. Eligibility Criteria Point no-9	The bidder should have experience in implementation / installation of Microsoft OS & System center database with cluster implementation, storage/volume replication/database replication between DC & DR and SAN Storage, creation of Virtual Machines and its maintenance in at least one PSU in India.	Will request you to consider The bidder should have experience in implementation / installation of Microsoft OS & System center database with cluster implementation, storage/ volume replication/ database replication between DC & DR and SAN Storage, creation of Virtual Machines and its maintenance in at least one PSU/ Govt Organization/BFSI/ Private Organization in India. Or The bidder should have experience in implementation / installation of Microsoft OS, storage/ volume replication/ database replication between DC & DR and SAN Storage, creation of Virtual Machines and its maintenance in at least one PSU/ Govt Organization/BFSI/ Private Organization in India.	Clause modified as under: The bidder should have experienced in installation/implementation of Virtual Environment using Microsoft Platform(i.e using Microsoft System Centre and configuring VMM). The bidder should also have expertise in database (Oracle & MS SQL Server) installation and configuration (on line Database replications) required for this project under high availability cluster environment and creation of Virtual Machines and its maintenance in at least one PSU/ Govt Organization/BFSI in India.
9	11	3. Eligibility Criteria - Point 9	The bidder should have experience in implementation / installation of Microsoft OS & System center database with cluster implementation, storage/volume replication/ database replication between DC & DR and SAN Storage, creation of Virtual Machines and its maintenance in at least one PSU in India. Copy of masked purchase order and reference letter of the organization evidencing the experience required as per clause.	Due to the NDA with customers it is not possible to share the PO copies. We request the Bank to modify the clause on supporting documents as below: Copy of masked purchase order or reference letter of the organization evidencing the experience required as per clause.	The bidder should have experienced in installation/implementation of Virtual Environment using Microsoft Platform(i.e using Microsoft System Centre and configuring VMM). The bidder should also have expertise in database (Oracle & MS SQL Server) installation and configuration (on line Database replications) required for this project under high availability cluster environment and creation of Virtual Machines and its maintenance in at least one PSU/ Govt Organization/BFSI in India. Copy of masked purchase order and reference letter of the organization evidencing the experience required as per clause.
10	15	Part-II Point No-2.16	The bidder shall keep the price valid for 1 (one) year from the date of RFP submission.	Request Bid validity of 180 days	RFP clause is self-explanatory.
11	15	Part-II 2.Submission Of Offer-Three Bid System Point No-2.25	Bidder must have back to back support relation with the OEM's whose products are offered by the bidder to the Bank, in case the bidder is not an Original Equipment Manufacturer (OEM). A commitment letter from the OEM at least for a period of 7 years has to be submitted along with the Technical bid.	Please confirm if this clause is applicable for the software licenses that are to be supplied as part of this tender. If yes, will the MAF be treated as the "Commitment Letter"?	Clause stands as per RFP

12	16	Part-II 2.Submission Of Offer- Three Bid System Point No-2.26	The bidder shall not quote for the products, whose End of sale/ End of Support / End of Life has been declared by the OEM. The Bidder has to ensure that any equipment supplied as part of this RFP should not reach end of support or end of life for at least Five (7) years postdate of acceptance of such equipment /solution by the Bank. In the event if any equipment supplied by the selected bidder, reaches either end of support or end of life as stipulated in this clause, within the period of 7 years , the selected bidder has to immediately replace / upgrade the equipment at no additional cost to the Bank.	(a) Please confirm if this clause is applicable for the software licenses that are to be supplied as part of this tender. (b) The version and release of the software licenses which can be used is dependent on the software application which would be using the licenses. The Bank should take the ownership of requesting for the version & release as per their requirement. Replacement / upgrade of software licenses in insolation cannot be the scope of the work of the supplying vendor. Please clarify or change the scope for the software licenses.	a) Clause modified as under: The bidder shall not quote for the products, whose End of sale/ End of Support / End of Life has been declared by the OEM. The Bidder has to ensure that any equipment/Operating system/Other software supplied as part of this RFP should not reach end of support or end of life for at least Five (5) years postdate of acceptance of such equipment /solution by the Bank. In the event if any equipment/Operating system/Other software supplied by the selected bidder, reaches either end of support or end of life as stipulated in this clause, within the period of 5 years , the selected bidder has to immediately replace / upgrade the equipment/Operating system/Other software at no additional cost to the Bank.
				Request you to confirm whether end of support or end of life required is 5 years or 7 years	
				Request you to modify the clause as " The bidder shall not quote for the products, whose End of sale/ End of Support / End of Life has been declared by the OEM. The Bidder has to ensure that any equipment supplied as part of this RFP should not reach end of support or end of life for at least seven (7) years postdate of supply of such equipment/solution by the Bank.	b) Apply of software patches is bidders responsibility. Bidder has to replace/ upgrade the software licenses.
13	16	PART-II 5.Earnest Money Deposit Point No-e	In case of the successful bidder, if the bidder fails:- To sign the contract in the form and manner to the satisfaction of UCO BANK	Bidder requests this clause regarding signature be modified such that EMD is forfeited if the parties fail to sign a mutually agreed contract, along with Bidder's deviations and changes as requested. Proposed Clause To sign the mutually agreed contract along with changes and suggestions provided by bidder and accepted by Bank. and manner to the satisfaction of UCO Bank Bidder also seeks clarification regarding the point in Annexure J which states that EMD can be forfeited if Bidder fails to sign the contract, in accordance with the terms and conditions of the RFP or the terms and conditions mutually agreed, is it the bidder's intention to convey that the terms will be mutually discussed? Kindly clarify	Clause stands as per RFP
14	18	Part-II 6.Rejection of Bid Point d & f	Incomplete Bids /Conditional Bids/ incorrect information in bid / Bids not conforming to the terms and conditions stipulated in this Request for proposal (RFP) are liable for rejection by the Bank. Bidder should comply with all the points mentioned in the RFP. Noncompliance of any point will lead to rejection of the bid.	Bidder requests that any terms and conditions and points stated in the RFP are to be mutually discussed and agreed between the parties. Bidder to be allowed to seek deviations which are to be discussed and agreed.	Clause stands as per RFP

15	20	Part-II 16.Acceptance of Terms	A Recipient will, by responding to Bank RFP, be deemed to have accepted the terms as stated in the RFP. Failure of the successful bidder to agree with the Draft Legal Agreement and Terms & Conditions of the RFP shall constitute sufficient ground for annulment of the award, in which event, bank may award the contract to the next best value bidder or call for new proposals from the interested bidders. In such a case, bank shall appropriate the EMD/invoke the PBG of the successful bidder.	Bidder requests that this clause be deleted in its entirety. Bidder would prefer if Bank allows deviations to the Terms and conditions and such deviations are included in the RFP response.	Clause stands as per RFP
16	27	Part- IV Scope of Work Point No-a	The bidder should supply, install, commission and maintain the hardware, Software and Licenses mentioned below. The proposed solution should be compatible with the existing VMware, Enclosure and make & model.	As per the clause We need to have residential Engineer. FMS work areas is not mentioned here. Whether the Engineer will be stationed in Head Office only and to provide support therefrom.	Please refer point III FM service under Scope of Work
17	27	Part- IV Scope of Work Point No-a	The proposed solution should be compatible with the existing VMware, Enclosure and make & model	This clause seems to be ambiguous. Request to kindly explain further	Clause clarified as under: 1> Proposed backup solution should be compatible with bank's existing setup. 2> Proposed SAN switches should be support back existing servers for integrating same of backup solution & new storage.
				Need Details of Every component of existing infrastructure with which the proposed solution should be compatible	
				The new blades if only of the same OEM will be compatible with the existing enclosure. Request you to remove this clause	
18	27	Part – IV Scope of Work Line Item-9	Enhancing storage space to accommodate additional requirement.	We understand that new storage is to be supplied by bidder as per specification and it is not enhancement to existing storage. Kindly confirm.	Clause clarified as under: New storage is a separate one not up gradation of existing.
19	27	Part – IV Scope of Work Line Item-10	16 KVM Monitor	Kindly clarify what needs to be quoted here? Kindly confirm If bidder can quote "8 Port KVM Switch with Foldable 17" TFT LCD monito+ 104 Keys Window Keyboard+ Touchpad" against this item as mentioned in server rack specifications.	Clause clarified as under: 16 Port KVM Switch with Foldable 17" TFT LCD monito+ 104 Keys Window Keyboard+ Touchpad.
20	27	Part – IV Scope of Work Line Item-11	Database Licenses (Oracle 12c enterprise edition, MS SQL server enterprise License. Required VMM license for additional servers to be included in cloud & Windows OS licenses for individual VMs)	Kindly remove this clause. As per understanding from RFP unit price of all databases to be quoted as given in commercial table.	Please refer corrigendum.

21	27	Part – IV Scope of Work Line Item-11	Hyper V	We understand that unit price of "Microsoft system Centre required License (For VMM)" to be quoted as mentioned in commercial table for this requirement. Kindly confirm	Please refer corrigendum.
22	28	Part IV Scope of Work Point A (Last Para)	Bidder should provide the complete Back-Up Solution for the proposed Infrastructure including all VM Servers, Database Servers and all Physical Servers using LTO-6 or higher Tape(Data Cartage). The backup policy will be shared with selected bidder.	How many VMs required by the customer.	Clause modified as under: Bidder should provide the complete Back-Up Solution for the proposed as well as existing Infrastructure including all VM Servers (60 numbers), Database Servers and all Physical Servers using LTO-6 or higher Tape(Data Cartage). The backup policy will be shared with selected bidder.
	28			Please provide the proposed backup window, this will enable us to derive the number of backup drives required in the Tape Library. Tape Drives will incur more time if backup policy defines full back up every week.	
23	29	Part IV - Scope of Work III. Facility Management Point No-b	The bidder shall be responsible for implementation of complete project i.e. Supply, Installation, commissioning and Maintenance of Server, installation and configuration of Operating System, (WINOWS / RHEL / UNIX / CENTOS / ETC.)	The tender has Windows Server and RHEL as the only Operating System which are to be supplied, installed and commissioned. Please remove the other OS mentioned such as Unix, CENTOS etc.	Clause stands as per RFP
24	29	Part IV - Scope of Work II. Software Licenses	Required Numbers of Licenses for Servers (Unit Price is to be quoted in commercial)	We need the number of licenses to be quoted as OEM will provide the quote basis the quantity to be procured. The Implementation costs will also depend on the baseline	Please refer addendum/corrigendum.
				Pricing is also dependent on the quantity which would be ordered. So for calculating the TCO for deriving the L1 price we would request the Bank to state the minimum quantity of software licenses that would be procured as part of the tender. This would benefit the Bank in sourcing the best competitive price and also help in deriving the right L1 price.	

25	29	Part-IV Scope Of Work III. Facility Management Point No-b	The bidder shall be responsible for implementation of complete project i.e. Supply, Installation, commissioning and Maintenance of Server, installation and configuration of Operating System, (WINOWS/ RHEL/ UNIX/ CENTOS/ ETC.) Database (Oracle/ MS SQL/ Postgress /MYSQL), Configuration of Server, SAN and creation of virtual machines (VMs), Backup and DB replication as per Banks' requirement.	As per our understanding that, Currently UCO Bank using VM1 (Kolkata) & VM2 (Kolkata & Bangalore). Please provide total no of Oracle Databases running currently.	Clause clarified as under: One common Oracle & SQL Databases in VM1 And separate Oracle Database for VM2.
				We understand that Bidder needs to provide regular support as part of Facility Management Services. However, we need clarity on services for bidder with regards to implementation of Oracle DB and the scope of work involved.	Clause clarified as under: Bidder should install DBs related to new VM environment and configure DC-DR replication in DB level for existing as well as new VM environment.
				For implementation scope of work, please clarify the number of Oracle DB Instances to be installed and configured.	
				Please confirm whether DR to be implemented for Oracle DB or not.	
				Please provide the OS details running on VM1 & VM2	Details provided as under: Windows server 2012 & 2016 data center edition.
				Please provide the Oracle Database, RAC versions and number of RAC nodes.	Details provided as under Oracle 12C.No Oracle RAC.
				Please confirm whether ASM (Oracle DB) implemented or not	It is confirmed that: No ASM (Oracle DB) Implemented
				Please provide your current backup strategy.	Clause is clarified as: At present no tape backup facility available.
				Please provide the mode of Backup dump transfer to the DR Site.	Clause clarified as under: DB replication in between DC & DR will be done through Oracle archive log shipping for existing as well as new VM environment.
				In Intel based server UNIX installation is not possible.	Clause modified as under: The bidder shall be responsible for implementation of complete project i.e. Supply, Installation, commissioning and Maintenance of Server, installation and configuration of Operating System, (WINOWS/RHEL/CENTOS/ etc.) Database (Oracle/ MS SQL/Postgress /MYSQL), Configuration of Server, SAN and creation of virtual machines (VMs), Backup and DB replication as per Banks' requirement.
				Kindly clarify if bidder needs to deploy onsite manpower or on call support is required?	Clause clarified as under: Onsite manpower 24x7 and for details please refer FM support, Part III under Scope of Work.
				In case of onsite manpower requirement kindly mention minimum resources with required skill set, service window and location	
				Kindly clarify if bidder can propose remote managed services?	Clause is clarified as under; Bidder cannot propose remote managed services

				Request to kindly explain further also mention the core as now a days maximum no. of software are coming with 2 core licensing as it will help us to have more clarity to freeze out the BOM so that we can provide you the best of the breed solution.	Please refer addendum /corrigendum.
				Kindly mention which edition is required--Standard/enterprise/ any other	
				Kindly mention if on top of license any tuning pack is required.	
26	29	Part- IV Scope of Work II. Software Requirement	1 Windows Server 2016 Standard Edition down gradable to Windows Server 2012 2 Windows Server Data Centre Edition 3 RHEL 7.3 or higher versions 4 Data Base Licenses Oracle 5 MS SQL 6 MY SQL 7 POSTGRESS 8 Microsoft system center required License (For VMM)	BoM/ Commercial table mentions the requirement of Microsoft System Center while at page 27 it is mentioned that "The proposed solution should be compatible with the existing VMware, Enclosure and make & model. " Kindly confirm if vmware hypervisor is required	Clause clarified as under: vmware hypervisor is not required for this purpose
				Kindly mention which edition is required--Standard/enterprise/ any other	Please refer addendum/corrigendum.
				Please confirm if the enterprise (supported) or community version is required.	
				Kindly confirm which if Oracle MySQL to be quoted? Kindly mention which edition is required	
				(a) Postgress is a free open source database which is supported by a few firms. Please confirm if the supported or open-source version is required. (b) With reference to clauses 2.25 and 2.26 will the letter from the firm supporting the Postgress DB would be sufficient for tender response. Please clarify.	Postgress is not required
				Kindly confirm if Exterprise DB subscription of Postgress needs to be quoted? Kindly mention the edition required standard or enterprise? Kindly confirm if per core unit subscription to be quoted.	
27	29	Part – IV Scope of Work II.Software Licenses Line Item-3	RHEL 7.3 or higher versions	Kindly mention which subscription is required 1. RHEL for physical server 2 socket or 2. RHEL for VDC 2 socket	Clause clarified as: RHEL for physical server 2 socket Please refer to addendum/corrigendum

28	29	Part – IV Scope of Work II.Software Licenses Line Item-3	RHEL 7.3 or higher versions	Kindly mention whether standard 9x5 or premium 24x7 subscription is required from Redhat.	Clause is clarified as under: Premium 24x7 subscription is required from Redhat.
29	29	Part IV - Scope of Work III.Facility Management Point No-a	Bidder should provide Facility Management Services for Regular Maintenance, Patch Update (OS, DB, Firmware), Up-gradation (If required), Bug-fixing, DB Maintenance and Replication DC/DR Cutover, compliance to observations of VA-PT/IS Audit and other occasions as required by the Bank for proposed servers at Kolkata & Bangalore. Vender has to extend the same facility management service for the existing VM Services as well as for new set up of Bank. The specifications of our existing VM Services are given below.	(i) We understand that the scope of FMS would be limited to the equipment and software licenses supplied, installed and commissioned as part of this tender. Please confirm our understanding. (ii) Since software development and DBA services are not part of the scope of work we would request the Bank to remove the following tasks from the scope of work: # Bug-fixing # DB Maintenance # Compliance to observations of VA-PT/IS Audit which are for the software application	Clause stands as per RFP
				Kindly clarify the requirement and remove the scope like DB maintenance/ DC/DR replication/ cutover. Since there are multiple databases asked and we understand that Bank's application teams should be able to maintain the same. Kindly mention the clear scope for bidder and resources expected from bidder else every bidder will have their own interpretation and it will be difficult to evaluate the bids with different interpretations.	
				Please clarify on the existing hardware and software AMC/ATS, whether the existing hardware and software are under any AMC or ATS, locations where manpower for FMS is needed.	Clause is clarified as under: Existing hardware and software under AMC/ATS. Bidder should provide FM service support as per part III under Scope of Work.
30	29	Part IV - Scope of Work II.Software Licenses, Note	The proposed solution should integrate with the centralized anti-virus system of the Bank. Software provided should not have any malicious code, content, etc.	Since the scope of work is to supply and install standard software sourced from OEMs this clause has no relevance. We would request UCO Bank to remove this clause.	Clause stands as per RFP
31	29	Part IV - Scope of Work III.Facility Management Point No-a	The specifications of our existing VM Services are given below.	Kindly mention the quantity of existing components to be managed under FMS.	Clause is clarified as under: Bidder should provide FM service support for existing virtual environment running on Hyper V & Vmware at DC & DR.

32	29	Part IV - Scope of Work II.Software Licenses	Windows Server 2016 Standard Edition down gradable to Windows Server 2012	With reference to clause 2.26 will the "End of sale/ End of Support / End of Life" be evaluated for 2016 or 2012 version. Please clarify.	RFP clause is self-explanatory.
33	29	Part – IV Scope of Work II.Software Licenses Line Item-1 & 2	Windows Server 2016 Standard Edition down gradable to Windows Server 2012 Windows Server Data Centre Edition	Windows Server 2016 is not available. Requesting you to kindly change to "Windows Server 2019 Standard Edition down gradable to Windows Server 2016"	Clause modified as: Windows Server 2019 Standard/Data Centre Edition down gradable to Windows Server 2016 or windows server 2012.Please refer to Addendum/Corrigendum.
				Kindly confirm if unit price of Winoes 2 Core pack needs to be quoted.	
				Kindly confirm if only license needs to be quoted or Software assurance is also required along with Microsoft licenses for 5 year (6 years-it comes in 2 year bundle only).	
33	30	Part IV - Scope of Work III.Facility Management Point No-c	The server should come with systems management software to provide update management, configuration management, patch management and virtualization management.	Kindly clarify if bidder needs to supply patch/ configuration management software separately or bank has some existing patch management software that will be leveraged for linux and OS patches. Kindly clarify what is being used in existing setup.	Clause stands as per RFP
			The server should come with systems management software to provide update management, configuration management, patch management and virtualization management.	Please clarify whether the supplied management software should also manage the existing hardware and software.	
34	30	Part-IV Scope Of Work III.Facility Management Point No-e	The bidder will be responsible for creation/modification of virtual machines as per Bank's requirement.	No. of the VM is not specified. Please specify the same.	Clause modified as under: At present the number of VMs are 60(sixty) and in future the number of VMs may increase as per the Bank's requirement.
35	30	Part-IV Scope Of Work III.Facility Management Point No-f	The bidder will also be responsible to maintain / support supplied hardware, software database, SAN Storage during contract period. The bidder will be responsible to attend to issues / problems reported by the Bank on priority basis within 24 hours.	Please let us know if you are using any ITSM tool to raise the issues / problems?	Clause clarified as under: At present no such tool is available.

36	30	Part-IV Scope Of Work III.Facility Management Point No-g	As on date of submission of bid, proposed hardware should not have been declared end of sale, end of support / end of life. The proposed hardware should have roadmap for end of sale minimum 2 years and end of support / end of life for minimum next 7 years.	End of sale date for 2 Years can't be confirmed. Request you to remove this clause.	Clause modified as: As on date of submission of bid, proposed hardware should not have been declared end of sale, end of support / end of life during price validity period. The proposed hardware should not be end of support / end of life during the contract period.
				No OEM can give confirmation on the declaration of Sale of Product for minimum 2 years as this is governed by the Corporate. Request you to remove the requirement & accept the clause as "As on date of submission of bid, proposed hardware should not have been declared end of support / end of life. The proposed hardware should have roadmap for end of support / end of life for minimum next 7 years.	
37	30	Part IV - Scope of Work III.Facility Management Point No-j	Facility Management Service is to be provided at Bank's premises on 24x7x365 basis deployed for this purpose shall act as single point of contact with the bank for any matter pertaining to scope of work specified in the RFP.	Kindly mention the min resource requirement accordingly.	Clause clarified as under: Bidder should provide Facility Management service as defined in Part III in Scope of work.
				(i) Here premise means the Bank's Data Centre facility in Kolkata and Bangalore. Please confirm our understanding. (ii) Please confirm if the Bank would provide remote access to the Servers for executing tasks required for the O&M of the hardware and software.	Clause stands as per RFP.
38	32	Part-V 5. Performance Bank Guarantee	The Selected bidder, within 15 days from the date of letter of intent will have to furnish a Performance Bank Guarantee, format as per Annexure – G, issued by any scheduled commercial bank (other than UCO Bank) equivalent to 10% of the project cost valid for 75 months (72 months + a claim period of 3 months) from the date of Letter Of Intent (LOI). However, the selected bidder may have to extend the validity of the Performance Bank Guarantee for a period of AMC/ATS as required by the Bank.	Please modify the clause as: 1. Bidder seeks PBG to be provided at 10% of annual contract value and shall be renewed yearly at 10% of relevant subsequent year's contract value. 2. Customer shall invoke the PBG only on occurrence of material breach and after providing 30 days cure period to the bidder to rectify the material breach for which the PBG is sought to be invoked.	Clause modified as The Selected bidder, within 15 days from the date of letter of intent will have to furnish a Performance Bank Guarantee, format as per Annexure – G, issued by any scheduled commercial bank (other than UCO Bank) equivalent to 10% of the project cost valid for 63 months (60 months + a claim period of 3 months) from the date of Letter Of Intent(LOI).However, in case of any additional PO over and above the TCO, fresh PBG equivalent to 10% of new order value to be submitted for 63 months from the date of respective POs.
				Page 51 - Annexure A Tender Offer Forwarding letter has the following clause: In the event of our selection by the Bank for Supply, Installation and Maintenance of Hardware, Software and Licenses for various Projects/Applications, we will submit a Performance Guarantee for a sum equivalent to 10% of the Project Cost to be valid for a period of Six years (plus 3 years of claim period) in favor of UCO BANK. Please clarify if claim period is 3 months and not 3 years.	
				Request to change it as PBG for 63 Months (60 Months +3 Months of Claim Approval)as project is only for 5 years.	
				As per our understanding the total contract period is for 5 years but PBG is asked for (72 months + a claim period of 3 months). Please clarify.	

| 39 | 31 | Part-V Point- 2 Delivery and Installation | The Bank reserves the right to shift the ordered items to any location where bank has presence or its Technical Partners, anywhere in India, during the warranty period. The selected bidder must undertake to GO LIVE within 8 weeks from the date of acceptance of the purchase order. Supply, Installation and up-gradation should be completed within 4 weeks of delivery, in case the site is ready. If site is not ready, installation should be completed within a week of request from the concerned site upon Site Readiness confirmation by the bank. | Request you to include the Site Not Ready clause for terms of payment. | Clause modified as under: The Bank reserves the right to shift the ordered items to any location where bank has presence or its Technical Partners, anywhere in India, during the warranty period.

Supply, Installation and up-gradation should be completed within 12 weeks of Purchase Order. The delay period of site readiness will not be included in above-mentioned delivery and installation period. |
				Request you to give time of 16 Weeks minimum with a revised clause as follows: Supply, Installation and up-gradation should be completed within 16 weeks of delivery, in case the site is ready. If site is not ready, installation should be completed within 10 week of request from the concerned site upon Site Readiness confirmation by the bank.	
				Please confirm if installation of delivered H/W and S/W will only be treated as GO-LIVE for respective Bidder? Request for clarity on this.	
				Request to change the clause as" Delivery should be in 8 weeks, implementation & go live should be within 4 weeks after delivery."	
				The timelines are very aggressive. Request you to change the same to 16 weeks. The delivery timelines should be changed to 10 weeks	
				Timelines are very stringent. Request bank to relook in to the same. Minimum 16 weeks should be provided (8-10 weeks for delivery and 4 - 6 weeks for installation). Kindly amend as: "The selected bidder must undertake to GO LIVE within 16 weeks from the date of acceptance of the purchase order. Supply, Installation and up-gradation should be completed within 10 weeks of delivery, in case the site is ready. If site is not ready, installation should be completed within 6 weeks of request from the concerned site upon Site Readiness confirmation by the bank "	
				Kindly mention the acceptance criteria. We understand that hardware rack stack, OS installation, Storage configuration allocation is expected from bidder.	
				Request you to amend the clause as 5 Weeks for Delivery and 5 Weeks for implementation and Go-Live. A total of 10 Weeks to Go-Live.	
				The Bank can shift the hardware on its own costs. However, this has to be as per OEM confirmation & its policy else Warranty/AMC will get void.	

40	33	Part V 6.Warranty	The Selected Bidder must provide 3 (Three) year on-site comprehensive warranty for all hardware and peripheral items to be supplied under this RFP covering all parts and Labour from the date of acceptance of the systems by UCO Bank at the respective locations i.e. on-site comprehensive warranty and two year AMC (4th Year AMC & 5th Year AMC), if so decided by the Bank	Request you to change the warranty start from the date of Delivery. Request for the modification of this clause as " The Selected Bidder must provide 3 (Three) year on-site comprehensive warranty for all hardware and peripheral items to be supplied under this RFP covering all parts and Labour from the date of delivery of the systems at UCO Bank at the respective locations i.e. on-site comprehensive warranty and two year AMC (4th Year AMC & 5th Year AMC), if so decided by the Bank.	Clause stands as per RFP
41	33	Part V 6.Warranty	The Selected Bidder must provide 3 (Three) year on-site comprehensive warranty for all hardware and peripheral items to be supplied under this RFP covering all parts and Labour from the date of acceptance of the systems by UCO Bank at the respective locations i.e. on-site comprehensive warranty and two year AMC (4th Year AMC & 5th Year AMC), if so decided by the Bank	(i) Please clarify the Warranty requirement of the software licenses. (ii) The financial bid format (Annexure E) has line items for the ATS for 4th and 5th years. So do we club the ATS cost of the first three years as part for the software license cost. Please confirm. (iii) We would request the Bank to replace the phrase "*from the date of acceptance*" with "*from the date of supply*".	Please refer to addendum/corrigendum.
42	33	Part V 6.Warranty Point NO-iii	Warranty shall not become void even if UCO Bank buys any other supplemental hardware from a third party installs it with / in these machines. However, the warranty will not be applied to such hardware installed. Besides the above, the vendor will have to enter into Service Level Agreement (SLA) with the Bank	Please remove this clause.	Clause stands as per RFP

43	33	Part V 7.Payment Terms	90% of the order value along with applicable taxes on actual basis will be paid on successful user acceptance after delivery, installation of the ordered items, after realizing penalty charges for late delivery and / or late installation, if any. The claim of payment should contain proof of delivery, installation note and User Acceptance Report signed with date by an authorized official of UCO Bank at the respective sites, waybill etc. Remaining 10% of the cost along with applicable taxes would be paid after one year from Go-live and successful operation. However, payment may also be released before one year period on submission of an additional Bank Guarantee of equal amount having the validity of 1 year. AMC for Hardware shall be paid in quarterly arrear basis. ATS on software item shall be paid in quarterly arrear basis. Payment for FM services shall be paid in quarterly arrear basis.	We request the bank to payment terms as: 80% of order value on Delivery after realizing penalty charges for late delivery, if any. 10% of order value on Installation and UAT, after realizing penalty charges for late installation, if any. 10% on submission of PBG	50% of the order value along with applicable taxes on actual basis will be paid on successful delivery. 40% of the order value along with applicable taxes on actual basis will be paid on successful user acceptance after delivery, installation of the ordered items, after realizing penalty charges for late delivery and / or late installation, if any. The claim of payment should contain proof of delivery, installation note and User Acceptance Report signed with date by an authorized official of UCO Bank at the respective sites, waybill etc. Remaining 10% of the cost along with applicable taxes would be paid after one year from Go-live and successful operation. However, payment may also be released before one year period on submission of an additional Bank Guarantee of equal amount having the validity of 1 year. AMC for Hardware shall be paid in quarterly arrear basis. ATS on software item shall be paid in yearly in advance basis. Payment for FM services shall be paid in quarterly arrear basis.
				Requested payment terms : 70% on delivery, 20% on Installation & 10% on final acceptance against 10% PBG.	
				Request you for a change in payment terms as "50 % on supply, 40% on Implementation and Go-Live and balance 10% after 1 year of successful operation However, payment may also be released before one year period on submission of an additional Bank Guarantee of equal amount having the validity of 1 year".	
				90% Payment after delivery of materials & 10 % after successful installation.	
				We will be requesting to consider the following payment terms (a) 90% payment on delivery (b) 10% payment on installation (c) Payment of AMC, ATS & FMS- Quarterly in advance	
				Please modify the Payment terms as: AMC for Hardware shall be paid in yearly in advance basis. ATS on software item shall be paid in yearly in advance basis. Payment for FM services shall be paid in monthly arrear basis. Implementation: 50% at the start of implementation and balance 50% on completion of implementation.	
				Since the bidder will be submitting a PBG for 10% of the order value after sign-off, "additional" 10% BG linked to payment terms is redundant and the condition of submission of BG here should be removed. We request the bank to retain only a single BG (PBG), amounting to not more than 10% of order value, post sign off.	
				Query: This is not in line with standard payment terms as followed by any of the OEMs Suggestion: Kindly amend the payment terms to be: *AMC for Hardware shall be paid yearly in advance against Bank Guarantee *ATS on software item shall be paid yearly in advance against Bank Guarantee	
				We would request the Bank to consider the following payment terms in line with the industry norm: AMC for Hardware shall be paid annually in advance basis. ATS on software item shall be paid annually in advance basis. Payment for FM services shall be paid in quarterly arrear basis.	
				Request bank to pay the ATS yearly on advance basis	

44	35	Part V 10.Uptime & Penalty	Penalties & Service Level Agreement	The SLA and Penalty needs to be discussed basis the deployment that UCO will share.	Clause stands as per RFP
45	35	Part V 10.Uptime & Penalty	Penalties & Service Level Agreement	The resolution time for Severity I,II & III is very stringent . Request you to kindly modify the same.	Please refer to addendum/corrigendum.
46	35	Part V 10.Uptime & Penalty	Resolution Time: Severity 1 - Within 1 Hrs. of call reported Severity 2- Within 2 Hrs. of call reported Severity 3- Within 3 Hrs. of call reported	Request to change the resolution time as Resolution Time: Severity 1 - Within 6 Hrs. of call reported Severity 2- Within 6 Hrs. of call reported Severity 3- Within 6 Hrs. of call reported	Please refer to addendum/corrigendum.
47	35	Part V 10.Uptime & Penalty	Response Time- 30 Min.	Request bank to change the response time as 60 min.	Clause stands as per RFP.
48	35	Part V 10.Uptime & Penalty	Severity and Response Matrix	In all cases what is the meaning of service availability, whether it is H/W availability or Software availability?	Please refer to addendum/corrigendum.
49	35	Part V Penalties & Service Level Agreement	Severity 1 Within 1 Hrs. of call reported Severity 2 Within 2 Hrs. of call reported. Severity 3 Within 3 Hrs. of call reported.	We understand that resolution expected here exclude the hardware fault related problems as those are already covered in uptime ask. Kindly confirm	Please refer to addendum/corrigendum.
50	36	Part V 10.Uptime & Penalty	Penalties & Service Level Agreement	This kind of uptime can be achieved on cluster of servers. Individual server hardware cannot be committed with this uptime. Kindly amend the same and mention the uptime for servers in HA. For individual server kindly amend and mention 96% quarterly	Clause stands as per RFP.
51	36	Part V 10.Uptime & Penalty	Penalties & Service Level Agreement	Maximum SLA penalties should be capped at 10% of the applicable service fees for that month.	Clause stands as per RFP.
52	36	Part V 10.Uptime & Penalty	The bidder shall guarantee 99.98% uptime. The Bidder shall be liable for penalties for uptime maintained below 99.98% in a month	1) Need clarity if this refers to H/W uptime or S/W uptime 2) 99.98% uptime is not possible. OEM usually commit 99.0% or 99.5% in some cases	Clause stands as per RFP

53	36	Part V 12.Aadhere nce to Cyber Security Policy Ist Para	Bidders are liable for not meeting the security standards or desired security aspects of all the ICT resources as per Bank's IT/Information Security / Cyber Security Policy. The IT /Information Security/ Cyber Security Policy will be shared with successful bidder. Bidders should ensure Data Security and protection of facilities/application managed by them.	Please clarify on this point, successful bidder will only provide the products and services as per the BOQ provided, bidder can only harden the supplied products with whatever is coming inbuilt. Any third party software needs to be provided and policy managed by the bank only	Bidder should provide all hardware, software, FM services, backup solution as per scope of work and technical requirements mentioned in RFP. Bidders are also liable for not meeting the security standards or desired security aspects of all the ICT resources as per Bank's IT/Information Security / Cyber Security Policy. Integration with Bank's security center will extended by the successful bidder without any additional cost from time to time.
54	37	Part-V, Clause No.13. Liquidated Damage	Notwithstanding Bank's right to cancel the order, liquidated damages at 1% (One percent) of the undelivered portion of the order value per week will be charged for every week's delay in the specified delivery schedule subject to a maximum of 10% of the total cost of ownership. Bank will have right to recover these amounts by any mode such as adjusting from any payments to be made to the Vendor or from the performance Bank Guarantee. Liquidated damages will be calculated per week basis. Dispatch details shall be shared by the vendor regularly after handing over the consignment to the concerned Courier Agency/Indian Postal services. If the selected Bidder fails to provide any of the services after starting of operations, as per the terms of this RFP, the Bank shall be entitled to charge penalty/ liquidated damages @ 5% of the monthly bill, per week or part thereof.	Liquidated damages should be applicable only in the event of delay in delivery solely attributable to the Bidder and will be computed at the rate of 1% of the value of the delayed deliverables (i.e. Undelivered portion) per week subject to the maximum of 10% of such delayed deliverables. Notwithstanding Bank's right to cancel the order, liquidated damages at 0.5% (Half percent) of the undelivered portion of the order value per week will be charged for every week's delay in the specified delivery schedule subject to a maximum of 5% of the total cost of ownership. यूको बैंक UCO BANK Request you to change the maximum limit to 5% of TCO as follows: liquidated damages at 1% (One percent) of the undelivered portion of the order value per week will be charged for every week's delay in the specified delivery schedule subject to a maximum of 5% of the total cost of ownership.	Clause stands as per RFP
55	38	Part V 16.Service Level Agreement	The draft format of SLAs will be provided after the Letter of Intent (LOI) with the successful bidder.	Since the format is required to be vetted by our legal department, request you to share the format beforehand.	SLA shall be primarily based on terms & conditions of the RFP & will be shared with selected bidders.

56	39	Part V Clause 19(a) & (b)	a) The vendor commits a breach of any of the terms and conditions of the related RFP or this SLA. b) Delay in completing commissioning / implementation and acceptance tests /checks beyond the specified periods.	Bidder requests that the clause be modified such that any breach of the terms which is uncured shall remain terminated. Proposed Clause a) The vendor commits a breach of any of the terms and conditions of the related RFP or this SLA, *which remains uncured for a period of 30 days from the date such breach, is brought to the notice of vendor.* b) Delay in completing commissioning / implementation and acceptance tests /checks beyond the specified periods. Which remains *uncured for a period of 30 days from the date such breach is brought to the notice of vendor.*	Clause stands as per RFP
57	39	Part V Clause 19	After award of the contract, if the selected vendor does not perform satisfactorily or delays execution of the contract, UCO BANK reserves the right to get the balance contract executed by another party of its choice by giving one month's notice for the same. In this event, the selected vendor is bound to make good the additional expenditure, which UCO BANK may have to incur in executing the balance contract. This clause is applicable, if the contract is cancelled for any reason, whatsoever. UCO BANK reserves the right to recover any dues payable by the selected vendor from any amount outstanding to the credit of the selected vendor, including the adjustment of pending bills and/or invoking the Performance Bank Guarantee under this contract.	Bidder requests deletion of this provision; if Bank faces any issues with the Bidder in the performance of the contract; Bank may terminate the contract in its entirety. Bank can also avail other rights such as Liquidated Damages, SLAs etc. to make good their loss. <u>Proposed Clause</u> After award of the contract, if the selected vendor does not perform satisfactorily or delays execution of the contract, UCO BANK reserves the right to get the balance contract executed by another party of its choice by giving one month's notice for the same. In this event, the selected vendor is bound to make good the additional expenditure, which UCO BANK may have to incur in executing the balance contract. This clause is applicable, if the contract is cancelled for any reason, whatsoever. UCO BANK reserves the right to recover any dues payable by the selected vendor from any amount outstanding to the credit of the selected vendor, including the adjustment of pending bills and/or invoking the Performance Bank Guarantee under this contract.	Clause stands as per RFP
58	39	Part V Clause 19(h)	h) In case the selected vendor fails to deliver the resources as stipulated in the delivery schedule, UCO BANK reserves the right to procure the same or similar resources from alternate sources at the risk, cost and responsibility of the selected vendor.	Bidder requests deletion of this provision. Any cancellation shall not have a financial bearing.	Clause stands as per RFP

59	39	Part V; Clause 19	UCO BANK reserves the right to cancel the work/purchase order or terminate the SLA by giving 3 (three) months' prior notice in writing to the Vendor and recover damages, costs and expenses etc., incurred by Bank under the following circumstances	Bidder requests that the clause regarding recovery of damages, costs, expenses be deleted. <u>Proposed Clause</u> UCO BANK reserves the right to cancel the work/purchase order or terminate the SLA by giving 3 (three) months' prior notice in writing to the Vendor.	Clause stands as per RFP
60	40	Part V Clause 20(i),(ii),(iii) &(iv)	i. an act or omission of the Vendor, its employees, its agents, or employees of the consortium in the performance of the services provided by this contract, ii. Breach of any of the terms of this RFP or breach of any representation or warranty by the Vendor, iii. use of the deliverables and or services provided by the Vendor, iv. Infringement of any patent, trademarks copyrights etc. Or such other statutory infringements in respect of all components provided to fulfill the scope of this project.	Bidder requests that sub clause (i), (ii), (iii) be deleted and clause (iv) be modified by the removal of the statement "all components provided to fulfill the scope of this"	Clause stands as per RFP
61	40	Part V; Clause 20	Indemnity would be limited to court; tribunal or arbitrator awarded damages and shall exclude indirect, consequential and incidental damages. However indemnity would cover damages, loss or liabilities suffered by the Bank arising out of claims made by its customers and/or regulatory authorities. The vendor shall not indemnify the Bank for i. Any loss of profits, revenue, contracts, or anticipated savings or ii. Any consequential or indirect loss or damage however caused, provided that the claims against customers, users and service providers of the Bank would be considered as a "direct" claim. The selected bidder is required to furnish a separate Deed of Indemnity (Format whereof to be supplied by the Bank) in Bank's favor in this respect before or at the time of execution of Service Level Agreements.	यूको बैंक 🏦 UCO BANK Bidder requests that Indemnity would exclude all indirect damages include damages caused to Bank's customers which shall be considered Indirect. Further the liability shall be capped at the fees paid or payable by Bank to Bidder 12 months before the cause of action arose Proposed Clause The aggregate liability of both parties for all losses or damages arising under this agreement shall be limited to fees paid or payable by Bank to Bidder during the 12 months preceding the date the first event which Bank alleges gave rise to liability. shall exclude indirect, consequential and incidental damages. The vendor shall not indemnify the Bank for i. Any loss of profits, revenue, contracts, or anticipated savings or ii. Any consequential or indirect loss or damage	Clause stands as per RFP

62	40	Part v Clause-20 Indemnity	Selected bidder shall indemnify, protect and save the Bank and hold the Bank harmless from and against all claims, losses, costs, damages, expenses, action suits and other proceedings, (including reasonable attorney fees), relating to or resulting directly or indirectly from i. an act or omission of the Vendor, its employees, its agents, or employees of the consortium in the performance of the services provided by this contract, ii. Breach of any of the terms of this RFP or breach of any representation or warranty by the Vendor, iii. use of the deliverables and or services provided by the Vendor, iv. Infringement of any patent, trademarks copyrights etc. Or such other statutory infringements in respect of all components provided to fulfill the scope of this project. 4th Para- The vendors should indemnify the Bank (including its employees, directors or representatives) from and against claims, losses, and liabilities arising from: Ø Non-compliance of the vendor with Laws / Governmental Requirements Ø IP infringement Ø Negligence and misconduct of the Vendor, its employees, and agents Ø Breach of any terms of RFP, Representation or Warranty Ø Act or omission in performance of service. Indemnity would be limited to court; tribunal or arbitrator awarded damages and shall exclude indirect, consequential and incidental damages. However indemnity would cover damages, loss or liabilities suffered by the Bank arising out of claims made by its customers and/or regulatory authorities.	Request you to change it to " Para 1- Selected bidder shall indemnify, protect and save the Bank and hold the Bank harmless from and against actual and proven claims, losses, costs, damages, expenses, action suits and other proceedings, (including reasonable attorney fees), relating to or resulting directly from i. an act or omission out of Gross Negligence and/or willful misconduct of the Vendor, its employees, its agents in the performance of the services provided by this contract, ii. Breach of any representation or warranty by the Vendor, iv. Infringement of any patent, trademarks copyrights etc. Or such other statutory infringements in respect of all components provided to fulfill the scope of this project. 4th Para- The vendors should indemnify the Bank (including its employees, directors or representatives) from and against actual, direct and proven claims, losses, and liabilities arising from: Ø Non-compliance of the vendor with Laws / Governmental Requirements Ø IP infringement Ø Gross Negligence and willful misconduct of the Vendor, its employees, and agents Ø Representation or Warranty Ø Act or omission out of Gross Negligence and/or willful misconduct in performance of service shall exclude indirect, consequential and incidental damages. However indemnity would cover damages, loss or liabilities suffered by the Bank arising out of claims made by its customers and/or regulatory authorities.	Clause stands as per RFP

63	40	Part V; Clause 20	Selected bidder shall indemnify, protect and save the Bank and hold the Bank harmless from and against all claims, losses, costs, damages, expenses, action suits and other proceedings, (including reasonable attorney fees), relating to or resulting directly or indirectly from	Bidder requests that any indemnity be limited to direct damages only and not extended to indirect damages Proposed Clause Selected bidder shall indemnify, protect and save the Bank and hold the Bank harmless from and against all claims, losses, costs, damages, expenses, action suits and other proceedings, (including reasonable attorney fees), relating to or resulting directly.	Clause stands as per RFP
64	40	Part V; Clause 20	The vendors should indemnify the Bank (including its employees, directors or representatives) from and against claims, losses, and liabilities arising from: Ø Non-compliance of the vendor with Laws / Governmental Requirements Ø IP infringement Ø Negligence and misconduct of the Vendor, its employees, and agents Ø Breach of any terms of RFP, Representation or Warranty Ø Act or omission in performance of service.	Bidder requests that the Indemnity is limited to IP Infringement and breach of laws Proposed Clause The vendors should indemnify the Bank (including its employees, directors or representatives) from and against claims, losses, and liabilities arising from: Ø Non-compliance of the vendor with Laws / Governmental Requirements Ø IP infringement	Clause stands as per RFP
65	40	Part V; Clause 20	Vendor shall be responsible for any loss of life, etc., due to acts of Vendor's representatives, and not just arising out of gross negligence or misconduct, etc., as such liabilities pose significant risk. Vendor should take full responsibility for its and its employee's actions.	Bidder requests that loss of life shall be limited to gross negligence and willful misconduct only. Proposed Clause: Vendor shall be responsible for any loss of life, due to acts of Vendor's representatives, arising out of gross negligence or willful misconduct, as such liabilities pose significant risk.	Clause stands as per RFP

66	40	Part V; Clause 20	Vendor shall further indemnify the Bank against any loss or damage to the Bank premises or property, loss of life, etc., due to the acts of the Vendor's employees or representatives. The Vendor shall further indemnify the Bank against any loss or damage arising out of claims of infringement of third-party copyright, patents, or other intellectual property, and third-party claims on the Bank for malfunctioning of the equipment or software or deliverables at all points of time, provided however,	Bidder requests that indemnity is fixed by the removal of the words "etc.". Further the statement on infringement shall be modified such that it is limited to only third party claims on IP infringement but not extended to other claims by third party. Proposed Clause: Vendor shall further indemnify the Bank against any loss or damage to the Bank premises or property, loss of life,, due to the negligen*t* acts of the Vendor's employees or representatives. The Vendor shall further indemnify the Bank against any loss or damage arising out of *third party* claims of infringement of third-party copyright, patents, or other intellectual property, provided however,	Clause stands as per RFP
67	42	Part-V, Clause No.24. Right to Alter Quantities	The Bank reserves the right to alter the number of hardware hardware/software/licenses specified in the tender in the event of changes in plans of the Bank. Any decision of UCO BANK in this regard shall be final, conclusive and binding on the bidder. The bank reserves the right to place order for additional hardware/software/licenses at the agreed price during the contract period with the same terms and conditions. Banks is not obligate to purchase all the quantity of the hardware/software/licenses as mentioned above. Bank reserves the right to alter the quantities at any time without prior notice to the selected vendor(s).	We understand from Part IV- Scope of Work that Bank can place an order for additional of up to 25% (Twenty- Five percent) on the same price within one year of award of contract of the projected no. of quantities with the bidder/s at the agreed price, terms and conditions during the contract period. Beyond this, price would be initiated through CR.	RFP clause is self-explanatory.

68	43	Clause 28 Exit Option and Contract Re-Negotiation	The Bank reserves the right to cancel the contract in the event of happening one or more of the following Conditions: § Failure of the Selected bidder to accept the contract / purchase order and furnish the Performance Guarantee within 15 days of receipt of Letter of Intent The Bank will reserve a right to re-negotiate the price and terms of the entire contract with the Selected Bidder at more favorable terms in case such terms are offered in the industry at that time for projects of similar and comparable size, scope and quality	Bidder requests that the contract be accepted as per mutually agreed terms including any deviations proposed by the Bidder Proposed Clause The Bank reserves the right to cancel the contract in the event of happening one or more of the following Conditions: § Failure of the Selected bidder to accept the contract as per mutually agreed terms and conditions, including any deviations suggested by Bidder as part of the proposal submission / purchase order and furnish the Performance Guarantee within 15 days of receipt of Letter of Intent Further Bidder requests that any re-negotiation of the contract terms shall be made and should not be at Bank's option. Such negotiation shall be for this particular contract only. The Bank shall re-negotiate the price and terms of the entire contract with the Selected Bidder as mutually agreeable.	Clause stands as per RFP
69	45	Clause 30	In case the selected vendor fails to deliver the resources as stipulated in the delivery schedule, UCO BANK reserves the right to procure the same or similar resources from alternate sources at the risk, cost and responsibility of the selected vendor	Bidder requests Bank for the deletion of this clause in its entirety. Bidder shall not be liable to pay for cost of procurement from alternative sources. यूको बैंक UCO BANK	Clause stands as per RFP
70	45	Clause 30 Termination	In the event of termination of the Contract due to any cause whatsoever, [whether consequent to the stipulated term of the Contract or otherwise], UCO BANK shall be entitled to impose any such obligations and conditions and issue any clarifications as may be necessary to ensure an efficient transition and effective business continuity of the Service(s)	Bidder requests that any such post termination activities shall be subject to transition fees. Proposed Clause _Subject to payment of termination fees_, in the event of termination of the Contract due to any cause whatsoever, [whether consequent to the stipulated term of the Contract or otherwise], UCO BANK shall be entitled to impose any such obligations and conditions and issue any clarifications as may be necessary to ensure an efficient transition and effective business continuity of the Service(s).	Clause stands as per RFP

71	45	Clause 30.2 Termination for Default	UCO Bank, without prejudice to any other right or remedy for breach of Contract, by a written notice of default sent to the Successful Bidder, may terminate the Contract in whole or in part.	Bidder requests that any termination shall be made after providing a cure period. Clause 30 seems to be providing this cure period; however this clause does not seem to be indicating the cure period; request clarification; if it is the Bank's intention to provide this cure period. Further Bidder also requests for a Termination right in case Bank fails to pay Bidder. Proposed Clause: Bidder shall have the right to terminate the contract upon Bank failing to make payment of undisputed amounts, 30 business days from the due date of payment	Clause stands as per RFP
72	46	Clause 30.3 Termination for Convenience	The Bank, by written notice sent to the Selected Bidder, may terminate the Contract, in whole or in part, at any time for its convenience.	Bidder requests that any termination for convenience be made with a cure period of 90 days only. Proposed clause: The Bank, by written notice sent to the Selected Bidder, may terminate the Contract, in whole or in part, after providing 90 days' notice for its convenience, upon such termination; Bank shall pay Bidder any applicable shut down costs as discussed and mutually agreed.	Clause Stands as per RFP.
73	47	Clause 31 Effect of Termination	However, no payment for "costs incurred, or irrevocably committed to, up to the effective date of such termination" will be applicable to selected Bidder. There shall be no termination compensation payable to the selected bidder.	यूको बैंक UCO BANK Bidder requests that termination charges which include shut down costs which shall be mutually discussed and agreed shall be incorporated in case of Termination for Convenience.	Clause stands as per RFP
74	51	Annexure A Tender Forwarding Letter	Until a formal contract is executed, this tender offer, together with the Bank's written acceptance thereof and Bank's notification of award, shall constitute a binding contract between us.	Bidder requests for a modification such that "until a formal contract is executed, this tender offer. Proposed Clause including any deviations and suggestions provided by Bidder to the Bank which is subsequently discussed and mutually agreed, together with the Bank's written acceptance thereof and Bank's notification of award, shall constitute a binding contract between us.	Clause stands as per RFP

75	55	Annexure-D Technical Specification Software Requirement	12 Windows Server 2016 Standard Edition down gradable to Windows Server 2012 13 Windows Server Data Centre Edition 14 RHEL 7.3 or higher versions 15 Data Base Licenses Oracle 16 MS SQL 17 MY SQL 18 POSTGRESS 19 Microsoft system center required License (For VMM)	This RFP entails planned procurement of servers (six types) associated accessories and the required software licenses thereof. However, this RFP doesn't mention the server --> software mapping, which prevents one from arriving at the software BoM . For example there are servers ranging from 8 cores to 72 cores. In order to arrive at the correct BoQ of the software, say the database software like MS SQL Server, Oracle, it is very important to know the proposed deployment architecture of these software. In other words, for example, where will Oracle database be installed, will it be on the 72 core server or on the 16 core server. Oracle BoQ will vary on this factor. Same is true for most of the other software. Without this deployment plan, specifically charted out in the RFP, software BoQs cannot be arrived at correctly. Hyper V is being envisaged as the virtualization platform. However , licensing policies on virtualized platform need to be looked into. It is therefore suggested that the entire software stack be separated from the RFP. The hardware part is very well defined and specific and it is advisable to go for the hardware procurement, decide on the deployment architecture, arrive at the correct and specific BoQ of the software component (which lacks specificity in this RFP), and then procure the required software licenses through another RFP. Doing the above is likely to benefit the bank in procuring the correct software items in correct quantities, which is important because the cost implication of the software components is significant. Also since software options are multiple, like Oracle, Postgress, MS SQL etc , bidders should be permitted to quote for softwares which bidders intend to and quoting for all softwares should not be mandatory.	Please refer to addendum/corrigendum.
76	55	ANNEXURE – D Technical Requirement Line Item-20	FC Switch 24 Port with necessary cables and accessories	Kindly mention the length of cables to be supplied with SAN switches	Clause is clarified as: The length of cables to be supplied with SAN switches will be minimum 30 meter.
77	55	Annexure-D Technical Specification	Items Required For Back Up Solution	Kindly confirm if the backup management server for SAN Backup is part of the server count mentioned in Annexure-D, Page-55	Clause is clarified as under: Bidder should provide required hardware, software and other items if any for proposed backup solution as per RFP scope of work.

78	55	ANNEXURE – D Technical Requirement Line Item-21	LTO ver. 6 or higher version Tape Drive with Backup & Restoration S/W Bidder should provide the complete Back-Up Solution for the proposed Infrastructure including all VM Servers, Database Servers and all Physical Servers using LTO-6 or higher Tape(Data Cartage).	Kindly mention the specifications of backup software and quantify the requirement. Quantity of backup software licenses (frontend capacity/ number of agents/ number of online and database agents) would be required Instead of LTO drive tape library should be asked for automatic tape mounting/ removal with scheduled backups. Kindly confirm if bidder to provide backup server in addition to servers asked. Kindly clarify if backup will happen at both DC and DR Kindly clarify if bidder to provide onsite resource for day to day operations or bank team will manage that	Clause is clarified as under: Bidder should provide required hardware, software and other items if any for proposed backup solution as per RFP scope of work.
79	55	Annexure-D Technical Specification Software Requirement	Required Numbers of Licenses for Servers	Please determine the minimum quantity since most software OEM uses the physical core to determine the minimum and maximum number of licenses to be used.	Please refer to addendum/corrigendum.
80	55	Annexure-D Technical Specification Software Requirement	Required Numbers of Licenses for Servers	Please clarify the user editions for Software's (Standard/Enterprise etc.)	Please refer to addendum/corrigendum.
81	56	ANNEXURE – 1: Specification for Blade Server Type-I Point No.7	Minimum 2 x 2 TB/SAS Drive	Usable capacity should be mentioned under Raid	Clause is clarified as under: Bidder should provide raw HDD of server as per technical requirement mentioned in RFP. RAID configuration can be vary application wise during implementation.
82	56	Annexure-1 Specification for Blade Server Type-I Point No.4	Minimum 36 Core CPU @ 2.1 GHz or higher	There is no 36 core CPU available. Assume this indicates 2 x 18C CPU. Please confirm	Clause will be read as: Minimum 36 Core available at Server level. Bidder can supply 2X18 Core CPU.

83	56	Annexure-1 Specification for Blade Server Type-I Point No.11	Minimum 256 GB (1600 MHz or higher) DDR4 Should be upgradable up to 1TB	For optimal performance with Intel Xeon skylake processor, memory should be configured with quantity multiple of 6. hence 384GB memory recommended	Clause stands as per RFP
84	57	ANNEXURE – 1& 2: Specification for Blade Server Type-I Point No.18	The offered model to be listed in tpc.org or spec.org	This point should be removed. The tpc.org or spec.org publish various performance benchmarks on CPU or OLTP workloads. TPC.org stopped publishing any more benchmarks on latest servers. Since these doesn't reflect or publish any Industry standards this may be removed.	Clause Stands as per RFP
85	56	ANNEXURE – 1: Specification for Blade Server Type-I Point No-3	Half Height Blade/Chasis to house within 12 half Blade server	Some of the OEMs doesn't have chassis supporting more than 8 blades, Moreover, Since bank require 2 blade servers in Kolkata and 8 Blade servers in Bangalore, the same can be accommodated in 1 chassis in DC and 1 or 2 chassis in DR	Clause stands modified as: Bidder should provide required Blade Enclosures/Chasis to house at least 8 half blade servers.
				In the entire RFP wherever the highlighted clause is mentioned it shall be changed as "Blade/Rack server" to make the RFP neutral which currently is restrictive in nature & is favoring a few OEMs only. UCO BANK	
				3: Form Factor: Half Height Blade/Chassis to house within8 or above half Blade server	
				Certain OEMs doesn't have chassis supporting more than 8 blades. Can the bidder quote 1 or more number of chassis to fulfill the need for 12 servers in each locations?	
86	58	ANNEXURE – 2: Specification for Blade Server Type-II Point No-3	Half Height Blade/Chassis to house within 12 half Blade server	Form Factor: Half Height Blade/Chassis to house within 8 half Blade server	Clause stands modified as: Bidder should provide required Blade Enclosures/Chasis to house at least 8 half blade servers
				In the entire RFP wherever the highlighted clause is mentioned it shall be changed as "Blade/Rack server" to make the RFP neutral which currently is restrictive in nature & is favoring a few OEMs only.	
				Some of the OEMs doesn't have chassis supporting more than 8 blades, Moreover, Since bank require 2 blade servers in Kolkata and 8 Blade servers in Bangalore, the same can be accommodated in 1 chassis in DC and 1 or 2 chassis in DR	
				Certain OEMs doesn't have chassis supporting more than 8 blades. Can the bidder quote 1 or more number of chassis to fulfill the need for 12 servers in each locations?	

87	68	ANNEXURE – 7: Specification for Blade Server Chassis/Enclosure	Full Height Chassis to house at least 12 half blade Compute Nodes	Some of the OEMs doesn't have chassis supporting more than 8 blades, Moreover, Since bank require 2 blade servers in Kolkata and 8 Blade servers in Bangalore, the same can be accommodated in 1 chassis in DC and 1 or 2 chassis in DR	Clause stands modified as: Bidder should provide required Blade Enclosures/Chasis to house at least 8 half blade servers
			Full Height Chassis to house at least 12 half blade Compute Nodes	Full Height Chassis to house at least 8 half width/height (2 Socket) blade Compute Nodes	
			Full Height Chassis to house at least 12 half blade Compute Nodes	Certain OEMs doesn't have chassis supporting more than 8 blades. Can the bidder quote 1 or more number of chassis to fulfill the need for 12 servers in each locations ?	
88	60	ANNEXURE – 3: Specification for Server Type-III Point No-11	5 USB 2.0 ports(2 each on rear and front,1 internal), 1 Serial, Keyboard, mouse, graphics(DB-15)	The Keyboard and mouse is supported through same USB ports in servers. Please amend as USB Port : 5 USB 2.0 ports (2 each on rear and front, 1 internal), 1 Serial, graphics (DB-15)	Clause stands modified as: Min 5 USB 2.0 ports ,1Serial, graphics(DB-15).Keyboard ,mouse shall be supported with the same USB.
				USB provides serial connectivity up to 256 devices hence multiple ports may not be required. In many BFSI organizations USB is disabled due to security concerns. KVM switch provides remote connectivity to keyboard video & Mouse through secure connection of IP for all servers.	
				Will request to change it to 4 USB ports as our qualifying Servers does not have 5 USB Ports	
89	62	ANNEXURE – 4 Specification for Server Type-IV Point No.11	5 USB 2.0 ports(2 each on rear and front,1 internal), 1 Serial, Keyboard, mouse, graphics(DB-15)	USB Port : 5 USB 2.0 ports(2 each on rear and front,1internal), graphics(DB-9)	Clause stands modified as: Min 5 USB 2.0 ports ,1Serial, graphics(DB-15).Keyboard ,mouse shall be supported with the same USB.
				The Keyboard and mouse is supported through same USB ports in servers	
				USB provides serial connectivity up to 256 devices hence multiple ports may not be required. In many BFSI organizations USB is disabled due to security concerns. KVM switch provides remote connectivity to keyboard video & Mouse through secure connection of IP for all servers.	
				Will request to change it to 4 USB ports as our qualifying Servers do not have 5 USB Ports.	
90	64	ANNEXURE – 5: Specification for Server Type-V Point No-11	5 USB 2.0 ports(2 each on rear and front,1internal),1Serial,keyboard, mouse, graphics(DB-15)	USB Port : 5 USB 2.0 ports(2 each on rear and front,1internal), graphics(DB-9)	Clause stands modified as: Min 5 USB 2.0 ports , 1Serial, graphics(DB-15).Keyboard ,mouse shall be supported with the same USB.
				The Keyboard and mouse is supported through same USB ports in servers	
				Will request to change it to 4 USB ports as our qualifying Servers does not have 5 USB Ports	

91	66	ANNEXURE – 6: Specification for Server Type-VI Point No-11	5 USB 2.0 ports(2 each on rear and front,1internal) ,1Serial, keyboard, mouse, graphics(DB-15)	Will request to change it to 4 USB ports as our qualifying Servers does not have 5 USB Ports	Clause stands modified as: Min 5 USB 2.0 ports,1Serial, graphics(DB-15).Keyboard ,mouse shall be supported with the same USB.
92	58	Annexure-2 Specification for Blade Server Type-II Point No.11	Minimum 72 Core CPU @ 2.1 GHz or higher	There is no 72 core CPU available. Assume this indicates 4 x 18C CPU. Please confirm	Clause read as: Minimum 72 Core available at Server level. Bidder can supply 4X18 Core CPU
93	57	ANNEXURE – 1: Specification for Blade Server Type-I Point No-16	Windows Server 2016(Data Center Edition) down gradable to lower versions, Windows Server 2012 or higher (Standard Edition), RHEL 7.3 or higher, Cent OS, HP Unix, Unix etc.	Will request to change : Windows Server 2016(Data Center Edition) down gradable to lower versions, Windows Server 2012 or higher (Standard Edition), RHEL 7.3 or higher, Cent OS. HP Unix and Unix options as these are RISC based OS and are not supported on Intel x86 architecture.	Clause Stands modified as: "Windows Server 2019(Data Center Edition) down gradable to Windows Server 2016 and/or windows server 2012.Windows Server 2019(Standard Edition) down gradable to Windows Server 2016 and/or windows server 2012, RHEL 7.3 or higher, Cent OS"
				HP-UX is a proprietary OS of HPE and is only supported on EPIC platform (i.e. Intel Itanium processors), whereas, the requirement is for Intel Xeon / AMD x86 processors. Intel Xeon / AMD x86 processors do not support HP-UX	
				HP-UX is a proprietary software of HPE and is only supported on EPIC platform (i.e. Intel Itanium processors), whereas, the requirement is for Intel x86 processors.	
				OS Support Windows Server 2016(Data Center Edition)down gradable to lower versions, Windows Server 2012 or higher (Standard Edition), RHEL 7.3 or higher, Cent OS	
94	58	ANNEXURE – 2: Specification for Blade Server Type-II Point No-16	Windows Server 2016Data Center Edition (down gradable), Windows Server 2012 or higher (Standard Edition), RHEL 7.3 or higher, Cent OS, HP Unix, Unix etc.	Request you to remove any proprietary OS requirement if that is not to be supplied as part of this RFP, Here the requirement is only for X.86	Clause stands modified as: Windows Server 2019(Data Center Edition) down gradable to Windows Server 2016 and/or windows server 2012.Windows Server 2019(Standard Edition) down gradable to Windows Server 2016 and/or windows server 2012, RHEL 7.3 or higher, Cent OS"
	58			OS Support Windows Server 2016(Data Center Edition)down gradable to lower versions, Windows Server 2012 or higher (Standard Edition), RHEL 7.3 or higher, Cent OS	
	59			Will request to change : Windows Server 2016(Data Center Edition) down gradable to lower versions, Windows Server 2012 or higher (Standard Edition), RHEL 7.3 or higher, Cent OS. HP Unix and Unix options as these are RISC based OS and are not supported on Intel x86 architecture.	

95	61	ANNEXURE – 3: Specification for Server Type-III Point No-18	Windows Server 2016 Data Center Edition (down gradable), Windows Server 2012 or higher (Standard Edition), RHEL 7.3 or higher, Cent OS, HP Unix, Unix etc.	OS Support Windows Server 2016(Data Center Edition) down gradable to lower versions, Windows Server 2012 or higher (Standard Edition), RHEL 7.3 or higher, Cent OS	Clause stands modified as: Windows Server 2019(Data Center Edition) down gradable to Windows Server 2016 and/or windows server 2012.Windows Server 2019(Standard Edition) down gradable to Windows Server 2016 and/or windows server 2012, RHEL 7.3 or higher, Cent OS''
				Will request to change to : Windows Server 2016(Data Center Edition) down gradable to lower versions, Windows Server 2012 or higher (Standard Edition), RHEL 7.3 or higher, Cent OS. As HP Unix and Unix options as these are RISC based OS and are not supported on Intel x86 architecture.	
				HP-UX is a proprietary OS of HPE and is only supported on EPIC platform (i.e. Intel Itanium processors), whereas, the requirement is for Intel Xeon / AMD x86 processors. Intel Xeon / AMD x86 processors do not support HP-UX	
				Request you to remove any proprietary OS requirement if that is not to be supplied as part of this RFP, Here the requirement is only for X.86	
96	63	ANNEXURE – 4: Specification for Blade Server Type-IV Point No-18	OS Support Windows Server 2016 Data Center Edition (down gradable), Windows Server 2012 or higher (Standard Edition), RHEL 7.3 or higher, Cent OS, HP Unix, Unix etc.	HP-UX is a proprietary software of HPE and is only supported on EPIC platform (i.e. Intel Itanium processors), whereas, the requirement is for Intel x86 processors. No x86 architecture supports pure unix OS	Clause stands modified as: Windows Server 2019(Data Center Edition) down gradable to Windows Server 2016 and/or windows server 2012.Windows Server 2019(Standard Edition) down gradable to Windows Server 2016 and/or windows server 2012, RHEL 7.3 or higher, Cent OS''
				Request to Change it to : Windows Server 2016(Data Center Edition) down gradable to lower versions, Windows Server 2012 or higher (Standard Edition), RHEL 7.3 or higher, Cent OS Request to remove HP Unix and Unix options as these are RISC based OS and are not supported on Intel x86 architecture.	
				OS Support Windows Server 2016(Data Center Edition) down gradable to lower versions, Windows Server 2012 or higher (Standard Edition), RHEL 7.3 or higher, Cent OS	
				Request you to remove any proprietary OS requirement if that is not to be supplied as part of this RFP, Here the requirement is only for X.86	

97	65	ANNEXURE – 5: Specificatio n for Server Type-V Point No-18	Windows Server 2016 Data Center Edition (down gradable), Windows Server 2012 or higher (Standard Edition), RHEL 7.3 or higher, Cent OS, HP Unix, Unix etc.	Request you to remove any proprietary OS requirement if that is not to be supplied as part of this RFP, Here the requirement is only for X.86	Clause stands modified as: Windows Server 2019(Data Center Edition) down gradable to Windows Server 2016 and/or windows server 2012.Windows Server 2019(Standard Edition) down gradable to Windows Server 2016 and/or windows server 2012, RHEL 7.3 or higher, Cent OS"
				OS Support Windows Server 2016(Data Center Edition) down gradable to lower versions, Windows Server 2012 or higher (Standard Edition), RHEL 7.3 or higher, Cent OS.	
				HP-UX is proprietary software of HPE and is only supported on EPIC platform (i.e. Intel Itanium processors), whereas, the requirement is for Intel x86 processors.	
				Request to Change it to : Windows Server 2016(Data Center Edition) down gradable to lower versions, Windows Server 2012 or higher (Standard Edition), RHEL 7.3 or higher, Cent OS Request to remove HP Unix and Unix options as these are RISC based OS and are not supported on Intel x86 architecture.	
98	67	ANNEXURE – 6: Specificatio n for Blade Server Type-VI Point No-18	Windows Server 2016 Data Center Edition (down gradable), Windows Server 2012 or higher (Standard Edition),RHEL 7.3 or higher, Cent OS, HP Unix, Unix etc.	Request to Change it to : Windows Server 2016(Data Center Edition) down gradable to lower versions, Windows Server 2012 or higher (Standard Edition), RHEL 7.3 or higher, Cent OS. Request to remove HP Unix and Unix options as these are RISC based OS and are not supported on Intel x86 architecture.	clause stands modified as: Windows Server 2019(Data Center Edition) down gradable to Windows Server 2016 and/or windows server 2012.Windows Server 2019(Standard Edition) down gradable to Windows Server 2016 and/or windows server 2012, RHEL 7.3 or higher, Cent OS"
99	68	Annexure 7 2.IO Modules Last Para	Bidder should integrate the network connectivity for blade servers with Bank's existing core switch 'CISCO catalyst 4506 series' having SFP 10 G LRM module	Who will provide LAN ports to interconnect proposed servers	It is bidders responsibility to provide compatible LAN Port required at Server end.

100	68	Annexure-7 Point No-2	The chassis must have Server side FCoE connectivity in case bidder is quoting Converged Network Adapter on to the blade server. The chassis must have Server side 10 Gig Ethernet connectivity and 8 Gig Fiber Channel connectivity in redundancy in case bidder is quoting separate 10 G Ethernet NIC and 8 Gig FC HBA on to the blade server. •The vendor needs to provide additional / external Network (10 Gig) and FC Fabric switches (8 Gig), in case they are proposing Pass-Thru modules in the solution. In case direct FC connectivity is not supported on the Chassis or enclosure, 24 port SAN switches should be provided separately. Bidder should integrate the network connectivity for blade servers with Bank's existing core switch 'CISCO catalyst 4506 series' having SFP 10 G LRM module.	Will request to change : The chassis must have Server side 10 Gig Ethernet connectivity and 16 Gig Fiber Channel connectivity in redundancy in case bidder is quoting separate 10 G Ethernet NIC and 16 Gig FC HBA on to the blade server. •The vendor needs to provide additional / external Network (10 Gig) and FC Fabric switches (16 Gig), in case they are proposing Pass-Thru modules in the solution. Requested to replace 8 Gbps with 16 Gbps FC switches as 8 Gbps is already obsolete and no longer sold.	Clause stands as per RFP.
101	68, 69	Annexure-7 Point No-5	Solution Should provide management capabilities to manage controlling Power, Fan management, Chassis and compute node initialization, Switch management, Resource discovery and inventory management, Resource alerts and monitoring management, Chassis and compute node power management and diagnostics for elements including Chassis, I/O options and compute nodes.	Request to include "Redundant Chassis Management Module	Clause Stands as per RFP.
102	68	ANNEXURE – 7: Specificatio n for Blade Server Chassis/Encl osure 3:Midpane	Chassis should have a highly reliable passive mid pane for providing connectivity of the shared resources to the compute nodes in a highly reliable manner.	Chassis should have a highly reliable passive mid plane/ mid pane less design for providing connectivity of the shared resources to the compute nodes in a highly reliable manner. For Ethernet Switching some OEMs Provides more advanced architecture of "no backplane" for ether / converged switching. Though for SAN fabric we still have passive mid plane architecture. Certain OEMs provide more advanced architecture of "no backplane" for ether / converged switching. Hope the same is accepted.	Clause Stands as per RFP.

103	71	Annexure-9 Specification for SAN (Storage Area Network) Point No.1	Fiber Channel External Storage System with two RAID Controllers. Each Raid array controller should support Raid levels 0, 1, 5 and 1+0 implementations. Storage should have high availability feature with no single point of failure. Storage should have minimum 60 Gbps front end throughput and minimum 8 no. of FC front end ports. Storage should be supplied with all required licenses to connect at least 10 no: of servers as well OS such as Red Hat Enterprise Linux 6.x or higher, Windows server 2012 (both standard and datacenter editions) or higher. The usable capacity of SAN. Storage-1: Usable storage space of 125 TB having Raid 1+0 To be Placed at BDC. Storage-2.Usable Space of 90 TB having Raid 1+0 to be place at KDC.	Since the RFP is asking for Fiber Channel Switches and the ports and bandwidth asked is not in line with industry standard. Hence request to mention 4 x 16Gbps FC which would provide the front end bandwidth. SSD's can provide much higher performance at lower latency and much lower overall foot print saving Power, Cooling and Rackspace without compromising on the performance, Moreover RAID 1+0 also have 100% overhead, Hence SSD's with RAID 5/6 can match or exceeds the performance requirements from the Array. Will request you to remove RAID 0	Clause stands as per RFP
104	71	Annexure-9 Specification for SAN Point-2 Raid Support	Offered Storage Subsystem shall support Raid 0, 1, 1+0, 5 and Raid 6. Must support inter-mixing different RAID groups with one storage system. Different type of RAID levels should co-exist within the same array simultaneously to match different protection requirements of Data.	यूको बैंक UCO BANK Request to remove RAID 0	Clause Stands as per RFP.
105	71	Annexure-9 Specification for SAN (Storage Area Network) Point No.3	Offered Storage Array shall be given with Minimum of 128GB usable cache across dual controller.	Please confirm if storage should support flash cache for additional flexibility. Cache should be GLOBAL in nature. We understand this storage is going to be used for important virtualized workload and write performance is very important aspect. Please include " storage should be able to allocate at least 50% of 128 GB cache dynamically between read and write operations"	Clause stands as per RFP

106	72	Annexure-9 Specification for SAN (Storage Area Network) Point No.4	Offered storage should support SAS hot swappable hard disk bays to accommodate above no. of hard disks and upgradable to 100 HDDs supporting 1 TB or higher hot swappable hard disk drives at 15K or higher. Offered storage shall have minimum of 8 host ports for connectivity to servers.	Offered storage should support SAS hot swappable hard disk bays to accommodate above no. of hard disks and upgradable to 100 HDDs supporting 1 TB or higher hot swappable hard disk drives at 15K/**10K/SSD** or higher. Offered storage shall have minimum of **4X16 Gb/s** host ports for connectivity to servers. Please change to 10K RPM disks as 15K RPM disks are not available	Clause stands modified as: Offered storage should support SSD hot swappable hard disk bays to accommodate above no. of hard disks and upgradable to 100 HDDs supporting 1 TB or higher hot swappable hard disk drives. Offered storage shall have minimum of 8 host ports for connectivity to servers. It should support RAID 1+0, 5, 6 & higher versions.
107	72	Annexure-9 Specification for SAN (Storage Area Network) Point-5	The storage array shall be offered with 1 TB with, 15K, hot swappable hard disk drives, the Storage should support SAS based SSD Drive, mix and match of different type of spindles should be supported behind the same pair of controllers. The Storage Shall be scalable to minimum 200 TB.	Request you to change it to 10K RPM since 1 TB 15K RPM is not available Please change to 10K RPM disks as 15K RPM disks are not available 15K RPM Drives with 1TB Capacity is not available, moreover there is availability challenge of 15K drives in future. Request you to change the requirement to SSD/ Flash in RAID 5/6	Clause stands modified as: The storage array shall be offered with 1 TB or higher hot swappable hard disk drives, the Storage should support SAS based SSD Drive, mix and match of different type of spindles should be supported behind the same pair of controllers. The Storage shall be scalable to minimum 200 TB.
108	73	Annexure-9 Specification for SAN (Storage Area Network) Point No.11	Storage should have Thin provisioning, snapshots, clone, Auto Tearing & Replication.	We understand most of present deployment uses Replication through Data Base Tool. Request you to remove replication software requirement from specification.	Clause stands modified as: Storage should have Thin provisioning, snapshots, clone & Auto Tearing.
109	73	Annexure-9 Specification for SAN (Storage Area Network) Point No.13	Fiber Channel Switches with necessary cables (2 numbers)	FC switch is mentioned with in storage specification table as well. We understand that price for FC switch to be quoted against separate line item as mentioned in commercial table and only storage piece to be quoted in storage line item. Kindly confirm.	Clause clarified as: Bidder should provide all required cables and accessories for the integration with storage SAN switch, backup solution and servers.

110	73	Annexure-9 Specification for SAN (Storage Area Network) Point No.13	Minimum of 8 x 8-Gbit ports per trunk, Minimum 16 ports scalable up to 24 ports. Each port should be 8 Gbps with auto sensing support for 4 Gbps. must have inbuilt diagnostics, power on self-test, command level diagnostics, online and offline diagnostics capabilities, support online- firmware upgrades, must have redundant Control Units, Power supply, Fan Assembly and all the components shall be Hot Swappable, etc.	Please amend the clause as below to accommodate 16 Gb/s SAN Switch. Also remove redundant control units for fixed configuration SAN Switches. Please modify as below "Minimum of 8 x 8-Gbit ports per trunk, Minimum 16 ports scalable up to 24 ports. Each port should be 16 Gbps with auto sensing support for 4 Gbps. must have inbuilt diagnostics, power on self-test, command level diagnostics, online and offline diagnostics capabilities, support online- firmware upgrades, Power supply, Fan Assembly and Hot Swappable SFP, etc."	Clause stands modified as: Minimum of 16x8-Gbit ports, scalable up to 24X8 Gbit ports. Each port should be 8 Gbps with auto sensing support for 4 Gbps. must have inbuilt diagnostics, power on self-test, command level diagnostics, online and offline diagnostics capabilities, support online- firmware upgrades, Power supply, Fan Assembly and all the components shall be Hot Swappable SFP etc.
111	73	Annexure-9 Specification for SAN Point-14	The storage array must support RAID 0, 1, 5, 6, 1+0 levels with online expansion of RAID Group/Disk Group. Must support online expansion of volumes. Must be able to add additional disks on the fly to expand the RAID group capacity.	Request to remove RAID 0	Clause stands as per RFP
112	73	Annexure-9 Specification for SAN Point-16	The storage array should support both Sync and Async mode data replication at the storage controller level.	Please provide on the DC to DR replication methodology. What will be the connectivity between the two sites?	Clause clarified as under: In between DC & DR Async mode replication in database level will be performed however the storage should support synchronous replication.
113	73	Annexure-9 Specification for SAN Point-17	The proposed storage must support seamless data-in-place upgrade of existing storage controllers without having to change the disk subsystem.	Please amend this clause to "The proposed storage must support seamless upgrade to new system non disruptively".	Clause stands as per RFP
114	74	Annexure-9 Specification for SAN Point No.19	Storage array should support both Compression and de-duplication for SAN Data. The Storage specifications will be limited up to SAN only.	Storage array should support both Compression and de-duplication. The Storage specifications will be limited up to SAN only.	Clause stands modified as: Storage array should support both Compression and de-duplication for SAN Only. The Storage specifications will be limited up to SAN only.
115	74	Annexure-9 Specification for SAN (Storage Area Network) Point No.23	i) The Storage should be fully certified for all supported protocols to virtualized application environments. ii) The storage solution should be capable of providing multi-pathing software with failover and load-balancing functionality for the virtualized OS.	Please confirm if offered storage should support both thick and thin volumes for better flexibility and run traditional workloads.	Clause stands as per RFP.

116	57	Annexure-1 Specification for Blade Server Type-I Point No.21	3 year onsite warranty with 2 Years AMC with 99.98% uptime calculated on quarterly basis. Offered server should carry direct warranty from OEM (24 x 7 call logging with 6 hours call to resolution cycle) and the same should be substantiated by necessary supporting document	This kind of uptime can be achieved on cluster of servers. Individual server hardware can not be committed with this uptime. For individual server kindly amend and mention 96% quarterly	Clause Stands as per RFP.
117	61	ANNEXURE – 3: Specification for Blade Server Type-III Point No-27	HBA's 2x8 Gbps Fibre HB card (Multipathing and load sharing)	Request to change it to 16 Gbps FC as 8 Gbps is End of Sale	Clause stands modified as; HBA's **minimun** 2x8 Gbps Fibre HB card (Multipathing and load sharing)
				Kindly mention the network port requirement for all category servers which is missing in RFP	
118	63	ANNEXURE – 4: Specification for Blade Server Type-IV Point No-26	HBA's 2x8 Gbps Fibre HBA card (Multipathing and load sharing)	Please change it to: HBA's 2x16 Gbps Fibre HB card (Multipathing and load sharing) Request to change it to 16 Gbps FC as 8 Gbps is End of Sale and to avoid getting pproduct which is already obsolete	Clause stands modified as: HBA's minimun 2x8 Gbps Fibre HB card (Multipathing and load sharing)
119	60, 62,6 4 & 66	ANNEXURE – 3,4,5 & 6 : Point No-15	Minimum of 2 PCI expansions/ Mezzanine 09 Bus Slots expansions. Bus slots should support for Dual/Quad Gigabit, Dual 10Gbps and Dual port 4x QDR Infini band options for increased bandwidth and additional network port requirements.	Will request to change it to : Minimum of 2 PCI expansions/Mezzanine 09 Bus Slots expansions. Bus slots should support for Dual/Quad Gigabit, Dual 10Gbps for increased bandwidth and additional network port requirements Request to remove Infiniband connectivity as Infiniband connectivity is used for HPC Applications and not for Enterprise Applications	Clause stands modified as: Minimum of 2 PCI expansions/Mezzanine 09 Bus Slots expansions. Bus slots should support for Dual/Quad Gigabit, Dual 10Gbps for increased bandwidth and additional network port requirements.
120	56 & 58	Annexure-1& 2 Specification for Blade Server Type-I & II Point No.7	Minimum 4 x 2 TB/SAS Drive	Kindly check if 2 TB is typo as 1.2 TB drive is mentioned in all other servers	Clause stands modified as under: Minimum 4 x 1.2 TB/SAS Drive. Bidder should provide raw HDD of server as per technical requirement mentioned in RFP. RAID configuration can be vary application wise during implementation.
				Usable capacity should be mentioned under Raid	
121	57	ANNEXURE – 1 & 2 : Specification for Blade Server Type-I & II ,Point No-17 &19	Redundant Power Supply with necessary power cables/cords	Request to remove this line as blade servers do not come with individual power supplies, they draw power from the power supplies of the chassis where they are housed in and is completely redundant in nature.	Clause stands modified as: Bus slots should support for Dual/Quad Gigabit, Dual 10Gbps for increased bandwidth and additional network port requirements.

122	56	Annexure-1 Specification for Blade Server Type-I Point No.9	Raid Support: Raid 1,0,1+0,5,6	Request to remove RAID 5,6,1+0 as more than 2 drives are required to create the above RAID functionalities and 2 socket blades cannot accept more than 2 drives internally.	Clause Stands as per RFP
123	59	ANNEXURE – 2 & 3: Specification for Blade Server Type-II,III Point No.16 & 21	Standard management features by Server OEM only. Vendor should provide unified management suite that can monitor and manage all the servers deployed by vendor at delivery site using a single console. The server should come with systems management software to provide update management, configuration management, patch management and virtualization management. The software should be able to Cap data based on the report.	Request to clarify on the following line "The software should be able to Cap data based on the report"	RFP clause is self-explanatory.
124	75	Annexure – E Line Item -8	42U Server Rack	Kindly confirm if bidder needs to quote only server rack prices here and KVM specifications mentioned within server rack specification table can be quoted against "16 KVM Monitor " item in commercial table	Clause Stands as per RFP.
125	75	Annexure-E	Commercial Bid	As commercial factors are different for Softwares and Hardwares it is very important to segregate the Commercial BID for Hardware and all Softwares, which will enable bidders to bid with proper calculation of softwares & submit an aggressive commercial bid for both. Bank in turn can save a considerable amount keeping requirement unchanged.	Please refer to addendum/corrigendum.
126	77	Annexure-E	Backup Solution should integrate with existing and new proposed VM infrastructure.	Please clarify on How many Virtual Hosts and Physical Servers would be there for the Backup as you have asked for backup solution as a whole in the commercial bid.	Clause stands modified as: Bidder should provide backup solution for supporting minimum 30 TB databases/ applications backup.

127	82	Annexure G Performa for Performance Guarantee Point No-2	We ………………………… [indicate the name of the bank ISSUING THE BANK GUARANTEE] do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from UCO BANK stating that the amount claimed is due by way of loss or damage caused to or breach by the said VENDOR of any of the terms or conditions contained in the said Agreement or by reason of the VENDOR'S failure to perform the said Agreement. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs…...........	Bidder requests for an additional clause to be added here to clarify that any amount would be released from the Bank for a breach only after provision of an advance notice or cure period which allows Bidder to cure such a breach, Upon failure to cure such a breach; Bank may ask Purchaser to pay this amount. The additional statement can say: <u>Proposed Clause</u> It is clarified that We undertake to pay the amount due and payable only upon provision of evidence that Bank has provided Bidder a cure period of not less than 30 days to cure any default or breach as stated under this letter.	Clause Stands as per RFP.
128	88	Annexure H; Pre-Contract Integrity Pact Clause 10	The Bidder undertakes that it has not supplied /is not supplying same or similar product/systems or subsystems at a price lower than that offered in the present Bid in respect of any other Ministry /Department of the Government of India or PSU/PSBs during the currency of the contract and if it is found at any stage that same or similar product /Systems or Subsystems was supplied by the Bidder to any other Ministry /Department of the Government of India or a PSU or any Public Sector Bank at a lower price during the currency of the contract, then that very price will be applicable to the present case and the difference in the cost would be refunded by the Bidder to the Buyer, if the contract has already been concluded	Bidder seeks a modification of the language provided by Bank as follows Proposed Clause The BIDDER undertakes that it has not supplied / is not supplying same product / systems or subsystems as a whole solution with the same scope, terms and conditions within a period of 1 year prior to the bid submission date, at a price lower than that offered in the present bid in respect of any other Ministry / Department of the Government of India or PSU in India and if it is found within one year after signing of the contract that -the same product / systems or sub systems as a whole solution with same scope and terms and conditions was supplied by the BIDDER to any other Ministry / Department of the Government of India or a PSU in India at a lower price within a period of one year before the bid submission date, then that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in the cost would be refunded by the BIDDER to the BUYER, if the contract has already been concluded.	Clause stands as per RFP.
129	94	Annexure K Clause (c)	Further, we hereby undertake and agree to abide by all terms and conditions and guidelines stipulated by the Bank. We understand that any deviation may result in disqualification of our bid.	Bidder requests that this clause is modified by the removal of the last statement. Proposed Clause	Clause stands as per RFP

130	96	Annexure M	If our bid is accepted, we are responsible for the due performance as per the scope of work and terms & conditions as per mentioned in RFP.	Bidder requests that the clause is modified such that it is clarified that the terms and conditions in the RFP shall be mutually discussed and agreed Proposed clause If our bid is accepted; we are responsible for the due performance as per the scope of work and terms & conditions *as mutually agreed by the bidder and Bank.*	Clause stands as per RFP
131	97	Annexure N	We hereby agree to comply with all the terms and conditions / stipulations as contained in the RFP and the related addendums and other documents including the changes made to the original tender documents if any, issued by the Bank. The Bank is not bound by any other extraneous matters or deviations, even if mentioned by us elsewhere either in our proposal or any subsequent deviations sought by us, whether orally or in writing, and the Bank's decision not to accept any such extraneous conditions and deviations will be final and binding on us.	Bidder requests that this clause is modified as follows: Proposed Clause We hereby agree to comply with all the terms and conditions / stipulations as contained in the RFP and mutually discussed and agreed by the parties and the related addendums and other documents including the changes made to the original tender documents if any, issued by the Bank. The Bank shall consider any other extraneous matters or deviations, mentioned by us elsewhere either in our proposal or any subsequent deviations sought by us, whether orally or in writing.	Clause stands as per RFP
132	60 & 61	ANNEXURE – 3 Specificatio n for Blade Server Type-III Point No.15 & 19	Minimum of 2 PCI expansions/Mezzanine 09 Bus Slots expansions. Bus slots should support for Dual/Quad Gigabit, Dual 10Gbps and Dual port 4x QDR Infini band options for increased bandwidth and additional network port requirements. Minimum 4 nos of PCI express slots, out of which two ports to be kept free and 2 for HBA cards.	Please clarify.	Minimum of 2 PCI expansions/ Mezzanine 09 Bus Slots expansions Bus slots should support for Dual/Quad Gigabit, Dual 10Gbps for increased bandwidth and additional network port requirements.
133		**Additional Clause**		Please add the following clauses: 1. Bank shall pay within 30 days from the date of invoice. 2. Late payment will bear an interest of 2% per month. 3. Bidder seeks right to terminate or suspend services in the event of delay in payment of undisputed invoice. 4. Any objection / dispute to the amounts invoiced in the bill shall be raised by the Bank within 7 days from the date of receipt of the invoice. Upon settlement of disputes with respect to any disputed invoice(s), the Bank will make payment within thirty (30) Days of the settlement of such disputes.	Clause stands as per RFP

134		General	Limitation of Liability	Request you to include the following clause" Notwithstanding the other provisions of this Agreement, In no event shall the either party be liable to the other party or any third party for a monetary amount greater than the Annual value of Agreement pursuant to RFP. Neither party shall be liable to the other party for any loss of profit, production, anticipated savings, goodwill or business opportunities or any type of indirect, economic or consequential loss even if that loss or damage was reasonably foreseeable or that party was aware of the possibility of that loss or damage arising. The limitations set forth in this section shall apply even if any other remedies fail of their essential purpose"	Clause stands as per RFP
135		General	Termination Right of Bidder	Request you to include the following clause "Bidder/Service Provider may terminate this Agreement and / or any SOW upon written notice to the Bank if the Bank commits a default or material breach and does not remedy the default or material breach within 30 days of notice from the Bidder/Service Provider."	Clause stands as per RFP

यूको बैंक UCO BANK

UCO BANK
Department of Information Technology

RFP for Supply, Installation and Maintenance of Hardware, Software and Licenses for various Projects/Applications
RFP Ref. No. DIT/BPR & BTD/OA/5227/2018-19 Date: 25/02/2019

Amendments, Addendums and Corrigendum's

PART-I
3. Eligibility Criteria

SI No.	Original Clause	Revised Clause
Clause-5	The bidder should have **supplied, installed, commissioned and maintained at least 10 Blade Servers and 10 Rack Mounted Servers with chassis/ Enclosures in any PSU in India by them in Last three financial year.** The bidder should supply the server /enclosure / SAN Storage and should support their services.	The bidder should have supplied, installed, commissioned and maintained at least 10 Blade Servers with chassis/ Enclosures & 10 Rack mounted servers in at least one PSU in India in Last three financial year. The bidder should supply the server / enclosure / SAN Storage and should support their services.
Clause-9	The bidder should have experience in implementation / installation of **Microsoft OS & System center database** with cluster implementation, storage/volume replication/database replication between DC & DR and SAN Storage, creation of Virtual Machines and its maintenance in at least one PSU in India.	The bidder should have experienced in installation/implementation of Virtual Environment using Microsoft Platform(i.e using Microsoft System Centre and configuring VMM). The bidder should also have expertise in database (Oracle & MS SQL Server) installation and configuration (on line Database replications) required for this project under high availability cluster environment and creation of Virtual Machines and its maintenance in at least one PSU/ Govt Organization/BFSI in India.

Part –II: INVITATION FOR BIDS AND INSTRUCTIONS TO BIDDERS

Part-II   2.Submission of Offer-Three Bid System Point No-2.26

The bidder shall not quote for the products, whose End of sale/ End of Support / End of Life has been declared by the OEM. The Bidder has to ensure that any equipment/Operating system/other software supplied as part of this RFP should not reach end of support or end of life for at least Five (5) years postdate of acceptance of such equipment /solution by the Bank. In the event if any equipment/Operating system/Other software supplied by the selected bidder, reaches either end of support or end of life as stipulated in this clause, within the period of 5 years , the selected bidder has to immediately replace / upgrade the equipment/Operating system/Other software at no additional cost to the Bank.

Part – IV
Scope of Work

II. Software Licenses

**List of Servers for calculation of required number of Licenses

Sl. No	OS Specification		Server Type	No of Servers
1	Windows Server 2019 Standard edition down gradable to Windows Server 2016 and windows server 2012,		Type-I Type-III Type-IV Type-V Type-VI	3 5 3 11 4
2	Windows Server 2019 data center edition down gradable to Windows Server 2016 and windows server 2012,		Type-I Type-II	5 2
3	RHEL 7.3 or above (for physical server 2 socket)		Type-IV Type-V	4 5*
4	Oracle (12 C R2 Enterprise Edition)		Type-I Type-IV	1 2
5	MS SQL Server	Enterprise Edition	Type-I Type-V	1 4
		Standard Edition	Type-IV	1
6	VMM & System Centre		Type-I	1
7	8 No. of MS SQL 2016 enterprise edition Server License is required over and above requirement mentioned under point no.5			
8	1 No. of License of MY SQL latest Edition			
*	Only license is required for additional 5th server of Type-V mentioned under point no.3			

Specification for Blade Server Type-I

Sl. No.	Item	Specification	Offered Specification	Complied (Y/N)
1	Make	Bidder to specify		
2	Model	Bidder to specify		
3	Form Factor	Blade Enclosure/Chassis to house within at least **8** half Blade server		
4	CPU	Minimum **36 Core CPU** @ 2.1 GHz or higher		
5	Chipset	Latest Intel chipset supporting above processor		
6	Motherboard	OEM make Server class motherboard		
7	Disk Drives	Minimum 4 x 1.2 TB/SAS Drive		
8	Controller	Integrated SAS RAID Controller		
9	Raid Support	**Raid 1, 0, 1+0,5,6**		
10	Cache	Minimum 24 MB L3 Cache or higher		
11	RAM	Minimum **256 GB** (1600 MHz or higher) **DDR4** Should be upgradable up to 1TB		
12	Diagnostics	Pre Failure Notification for all active and important components like processors, Memory, Hard drives, etc. and automatic calls logging.		
13	Remote Management	Should be possible to manage the servers and get access to critical information about the health of the server from any remote location with just the help of a standard Web browser (Internet Explorer).		
		Remote management should support remote power on/off of the server and should have the capability to boot the blade server from a remote floppy or CDROM drive or An image of the same.		
		Should be possible to remotely manage each blade server individually.		
		Should support access rights for administrators for each blade server individually. Should be able to manage multiple blades in the same enclosure at the same time.		
		Server management software should be of the same brand as the supplier.		
14	Security	Power-on password, administrator password.		
15	OS Support	Windows Server 2019 Standard/Data centre Edition down gradable to Windows Server 2016 and windows server 2012, RHEL 7.3 or higher, Cent OS.		
16	Virtualization Support	VMware ESX/ESXi, Microsoft Hyper-V, Red Hat, etc.		
17	Systems Management and Diagnostics	Standard management features by Server OEM only. Vendor should provide unified management suite that can monitor and manage all the servers deployed by vendor at delivery site using a single console. The server should come with systems management software to provide update management, configuration management, patch management and virtualization management. The software should be able to Cap data		

		based on the report.		
18	Certification and industry standards compliant	1. The offered model to be listed in tpc.org or spec.org		
		2. Certified for Microsoft Windows		
		3. The offered server model should certified for at-least two of the following three certificates (UL, FCC, ROHS)		
19	Power Supply	Bus slots should support for Dual/Quad Gigabit, Dual 10Gbps for increased bandwidth and additional network port requirements.		
20	Delivery	All the necessary tools & tackles licenses, cables / connectors for Ethernet / Fibre / USB / Power etc. required for making the system operational shall be provided by the bidder.		
21	Warranty	3 year onsite warranty with 2 Years AMC with 99.98% uptime calculated on quarterly basis. Offered server should carry direct warranty from OEM (24 x 7 call logging with 6 hours call to resolution cycle) and the same should be substantiated by necessary supporting document		
22	Industrial Standard Compliance	ACPI 2.0 Compliant, PCI 2.0 or higher Compliant, WOL Support, MS Logo Certification, USB 2.0 Support.		

* Any line item mentioned above, if not compiled, will entail rejection of the bid.

यूको बैंक UCO BANK

Specification for Blade Servers-Type-II

Sl. No.	Item	Specification	Offered Specification	Complied (Y/N)
1	Make	Bidder to specify		
2	Model	Bidder to specify		
3	Form Factor	Blade Enclosure/Chassis to house within at least **8** half Blade server		
4	CPU	Minimum **72 Core CPU** @ 2.1 GHz or higher		
5	Chipset	Latest Intel chipset supporting above processor		
6	Motherboard	OEM make Server class motherboard		
7	Disk Drives	Minimum 4 x 1.2 TB/SAS Drive		
8	Controller	Integrated SAS RAID Controller		
9	Raid	**Raid 1, 0, 1+0, 5,6**		
10	Cache	**24 MB L3 Cache** or higher		
11	RAM	Minimum **512 GB** (1600 MHz or higher) **DDR4** Should be upgradable up to 1 TB		
12	Diagnostics	Pre Failure Notification for all active and important components like processors, Memory, Hard drives, etc. and automatic calls logging.		
13	Remote Management	Should be possible to manage the servers and get access to critical information about the health of the server from any remote location with just the help of a standard Web browser (Internet Explorer).		
		Remote management should support remote power on/off of the server and should have the capability to boot the blade server from a remote floppy or CDROM drive or An image of the same.		
		Should be possible to remotely manage each blade server individually.		
		Should support access rights for administrators for each blade server individually. Should be able to manage multiple blades in the same enclosure at the same time.		
		Server management software should be of the same brand as the supplier.		
14	Security	Power-on password, administrator password.		
15	OS Support	Windows Server 2019 Standard/Data Centre Edition down gradable to Windows Server 2016 or windows server 2012, RHEL 7.3 or higher, Cent OS.		
16	Virtualization Support	VMware ESX/ESXi, Microsoft Hyper-V, Red Hat, etc.		

17	Systems Management and Diagnostics	Standard management features by Server OEM only. Vendor should provide unified management suite that can monitor and manage all the servers deployed by vendor at delivery site using a single console. The server should come with systems management software to provide update management, configuration management, patch management and virtualization management. The software should be able to Cap data based on the report.		
18	Power Supply	Bus slots should support for Dual/Quad Gigabit, Dual 10Gbps for increased bandwidth and additional network port requirements.		
19	Certification and industry standards compliant	1. The offered model to be listed in tpc.org or spec.org		
		2. Certified for Microsoft Windows		
		3. The offered server model should certified for at-least two of the following three certificates (UL, FCC, ROHS)		
20	Delivery	All the necessary tools & tackles licenses, cables / connectors for Ethernet / Fibre / USB / Power etc. required for making the system operational shall be provided by the bidder.		
21	Warranty	3 year onsite warranty with 2 Years AMC with 99.98% uptime calculated on quarterly basis. Offered server should carry direct warranty from OEM (24 x 7 call logging with 6 hours call to resolution cycle) and the same should be substantiated by necessary supporting document		
22	Industrial Standard Compliance	ACPI 2.0 Compliant, PCI 2.0 or higher Compliant, WOL Support, MS Logo Certification, USB 2.0 Support.		

* Any line item given above, if not compiled, will entail rejection of the bid.

Specification for Server-Type-III

Sl. No.	Item	Specification for Servers-Type-III	Offered Specification	Complied (Y)
1	Make	Bidder to specify		
2	Model	Bidder to specify		
3	Form Factor	Maximum 4U Rack form factor with sliding rails to fit into industry standard 19" Server Rack		
4	CPU	Minimum Single **Intel Xeon Octa Core** CPU @ Minimum 3.0 GHz		
5	Chipset	Latest Intel chipset supporting above processor		
6	Motherboard	OEM make Server class motherboard		
7	Disk Drives	Minimum 4 x 1.2 TB/SAS Drive		
8	Controller	Integrated SAS RAID Controller with support for RAID 1		
9	Raid	**Raid 1,1+0,0,5,6**		
10	Cache	Minimum 24 MB L3 Cache or higher		
11	USB PORT	**5 USB 2.0 ports, 1Serial, graphics(DB-15). Keyboard,Mouse shall be supported with the same USB.**		
12	Cooing Fans	Redundant hot swap and redundant cooling fans		
13	DVD-ROM	**UltraSlim Enhanced SATA Multi-Burner DVD Writer (Internal/External)**		
14	RAM	**64 GB** (1600 MHz or Higher) DDR4 Should be upgradable upto 512 GB		
15	Bus Slots	Minimum of 2 PCI expansions/Mezzanine 09 Bus Slots expansions.		
		Bus slots should support for Dual/Quad Gigabit, Dual 10Gbps for increased bandwidth and additional network port requirements.		
16	Diagnostics	Pre Failure Notification for all active and important components like processors, Memory, Hard drives, etc. and automatic calls logging.		
17	Security	Power-on password, administrator password.		
18	OS Support	Windows Server 2019 Standard/Data centre Edition down gradable to Windows Server 2016 or windows server 2012, RHEL 7.3 or higher, Cent OS.		
19	EXPANSION SLOTS	Minimum 4 nos of PCI express slots, out of which two ports to be kept free and 2 for HBA cards.		
20	Systems Management and Diagnostics	Standard management features by Server OEM only. Vendor should provide unified management suite that can monitor and manage all the servers deployed by vendor at delivery site using a single console. The server should come with systems management software to		

		provide update management, configuration management, patch management and virtualization management. The software should be able to Cap data based on the report.		
21	Certification and industry standards compliant	1. The offered model to be listed in tpc.org or spec.org		
		2. Certified for Microsoft Windows		
		3. The offered server model should certified for at-least two of the following three certificates (UL, FCC, ROHS)		
22	POWER SUPPLY	Redundant Power Supply with necessary power cables/cords		
23	Delivery	All the necessary tools & tackles licenses, cables / connectors for Ethernet / Fibre / USB / Power etc. required for making the system operational shall be provided by the bidder.		
24	Warranty	3 year onsite warranty with 2 Years AMC with 99.98% uptime calculated on quarterly basis. Offered server should carry direct warranty from OEM (24 x 7 call logging with 6 hours call to resolution cycle) and the same should be substantiated by necessary supporting document.		
26	Industrial Standard Compliance	ACPI 2.0 Compliant, PCI 2.0 or higher Compliant, WOL Support, MS Logo Certification, USB 2.0 Support.		
27	HBA's **minimum** 2x8 Gbps Fibre HBA card (Multipathing and load sharing)			

* Any line item given above, if not complied, will entail rejection of the bid.

यूको बैंक UCO BANK

Specification for Server-Type-IV

Sl. No.	Item	Specification for Servers-Type-IV	Offered Specification	Complied (Y)
1	Make	Bidder to specify		
2	Model	Bidder to specify		
3	Form Factor	Maximum 4U Rack form factor with sliding rails to fit into industry standard 19" Server Rack		
4	CPU	Minimum **2X Intel Xeon Octa Core** CPU @ Minimum 3.0 GHz or higher		
5	Chipset	Latest Intel chipset supporting above processor		
6	Motherboard	OEM make Server class motherboard		
7	Disk Drives	Minimum 4 x 1.2 TB/SAS Drive		
8	Controller	Integrated SAS RAID Controller with support for RAID 1		
9	Raid	**Raid 1, 0, 1+0, 5,6**		
10	Cache	Minimum 25 MB L3 Cache or higher		
11	USB PORT	**5 USB 2.0 ports, 1Serial, graphics(DB-15). Keyboard, Mouse shall be supported with the same USB.**		
12	Cooing Fans	Redundant hot swap and redundant cooling fans		
13	DVD-ROM	**Ultra Slim Enhanced SATA Multi-Burner DVD Writer (Internal/External)**		
14	RAM	Minimum **64GB** (1600 MHz or Higher) DDR4 Should be upgradable upto 512GB		
15	Bus Slots	Minimum of 2 PCI expansions/ Mezzanine 09 Bus Slots expansions.		
		Bus slots should support for Dual/Quad Gigabit, Dual 10Gbps for increased bandwidth and additional network port requirements.		
16	Diagnostics	Pre Failure Notification for all active and important components like processors, Memory, Hard drives, etc. and automatic calls logging.		
17	Security	Power-on password, administrator password.		
18	OS Support	Windows Server 2019 Standard/Data centre Edition down gradable to Windows Server 2016 or windows server 2012, RHEL 7.3 or higher, Cent OS.		
19	EXPANSION SLOTS	Minimum 4 no.s of PCI express slots, out of which two ports to be kept free and 2 for HBA cards.		
20	Systems Management and Diagnostics	Standard management features by Server OEM only. Vendor should provide unified management suite that can monitor and manage all the servers deployed by vendor at delivery site using a single console. The server should come with systems management software to		

		provide update management, configuration management, patch management and virtualization management. The software should be able to Cap data based on the report.		
21	Certification and industry standards compliant	1. The offered model to be listed in tpc.org or spec.org		
		2. Certified for Microsoft Windows		
		3. The offered server model should certified for at-least two of the following three certificates (UL, FCC, ROHS)		
22	POWER SUPPLY	Redundant Power Supply with necessary power cables/cords		
23	Delivery	All the necessary tools & tackles licenses, cables / connectors for Ethernet / Fibre / USB / Power etc. required for making the system operational shall be provided by the bidder.		
24	Warranty	3 year onsite warranty with 2 Years AMC with 99.98% uptime calculated on quarterly basis. Offered server should carry direct warranty from OEM (24 x 7 call logging with 6 hours call to resolution cycle) and the same should be substantiated by necessary supporting document.		
25	Industrial Standard Compliance	ACPI 2.0 Compliant, PCI 2.0 or higher Compliant, WOL Support, MS Logo Certification, USB 2.0 Support.		
26	HBA's **minimum** 2x8 Gbps Fibre HBA card (Multipathing and load sharing)			

* Any line item given above, if not complied, will entail rejection of the bid.

यूको बैंक UCO BANK

Specification for Server-Type-V

Sl. No	Item	Specification for Servers-Type-V	Offered Specification	Complied (Y)
1	Make	Bidder to specify		
2	Model	Bidder to specify		
3	Form Factor	Maximum 4U Rack form factor with sliding rails to fit into industry standard 19" Server Rack		
4	CPU	Minimum **Intel Xeon Octa Core** CPU @ Minimum 3.0 GHz or higher		
5	Chipset	Latest Intel chipset supporting above processor		
6	Motherboard	OEM make Server class motherboard		
7	Disk Drives	Minimum 4 x 1.2 TB/SAS Drive		
8	Controller	Integrated SAS RAID Controller		
9	Raid	**Raid 1, 0, 1+0, 5,6**		
10	Cache	Minimum 25 MB L3 Cache or higher		
11	USB PORT	**5 USB 2.0 ports, 1Serial, graphics (DB-15). Keyboard, Mouse shall be supported with the same USB.**		
12	Cooing Fans	Redundant hot swap and redundant cooling fans		
13	DVD-ROM	**Ultra Slim Enhanced SATA Multi-Burner DVD Writer (Internal/External)**		
14	RAM	Minimum **32GB** (1600 MHz or Higher) DDR4 Should be upgradable up to 512GB		
15	Bus Slots	Minimum of 2 PCI expansions/ Mezzanine 09 Bus Slots expansions. Bus slots should support for Dual/Quad Gigabit, Dual 10Gbps for increased bandwidth and additional network port requirements.		
16	Diagnostics	Pre Failure Notification for all active and important components like processors, Memory, Hard drives, etc. and automatic calls logging.		
17	Security	Power-on password, administrator password.		
18	OS Support	Windows Server 2019 Standard/Data Centre Edition down gradable to Windows Server 2016 or windows server 2012, RHEL 7.3 or higher, Cent OS.		
19	EXPANSION SLOTS	Minimum 4 nos of PCI express slots, out of which two ports to be kept free and 2 for HBA cards.		
20	Systems Management and Diagnostics	Standard management features by Server OEM only. Vendor should provide unified management suite that can monitor and manage all the servers deployed by vendor at delivery site using a single console. The server should come with systems management software to provide update management, configuration management, patch management and virtualization management. The software should be able to Cap data based on the report.		
	Certification	1. The offered model to be listed in tpc.org or spec.org		

21	and industry standards compliant	2. Certified for Microsoft Windows		
		3. The offered server model should certified for at-least two of the following three certificates (UL, FCC, ROHS)		
22	POWER SUPPLY	Redundant Power Supply with necessary power cables/cords		
23	Delivery	All the necessary tools & tackles licenses, cables / connectors for Ethernet / Fibre / USB / Power etc. required for making the system operational shall be provided by the bidder.		
24	Warranty	3 year onsite warranty with 2 Years AMC with 99.98% uptime calculated on quarterly basis. Offered server should carry direct warranty from OEM (24 x 7 call logging with 6 hours call to resolution cycle) and the same should be substantiated by necessary supporting document.		
25	Industrial Standard Compliance	ACPI 2.0 Compliant, PCI 2.0 or higher Compliant, WOL Support, MS Logo Certification, USB 2.0 Support.		
26	HBA's **minimum** 2x8 Gbps Fibre HBA card (Multipathing and load sharing)			

* Any line item given above, if not complied, will entail rejection of the bid.

यूको बैंक UCO BANK

Specification for Server-Type-VI

Sl. No	Item	Specification for Servers-Type-VI	Offered Specification	Complied (Y)
1	Make	Bidder to specify		
2	Model	Bidder to specify		
3	Form Factor	Maximum 4U Rack form factor with sliding rails to fit into industry standard 19" Server Rack		
4	CPU	Minimum **36 Core CPU** @ 2.1 GHz or higher		
5	Chipset	Latest Intel chipset supporting above processor		
6	Motherboard	OEM make Server class motherboard		
7	Disk Drives	Minimum 4 x 1.2 TB/SAS Drive		
8	Controller	Integrated SAS RAID Controller		
9	Raid	**Raid 1, 0, 1+0, 5,6**		
10	Cache	Minimum 24 MB L3 Cache or higher		
11	USB PORT	**5 USB 2.0 ports, 1Serial, graphics(DB-15). Keyboard, Mouse shall be supported with the same USB.**		
12	Cooing Fans	Redundant hot swap and redundant cooling fans		
13	DVD-ROM	**Ultra Slim Enhanced SATA Multi-Burner DVD Writer (Internal/External)**		
14	RAM	Minimum **256GB** (1600 MHz or Higher) DDR4 Should be upgradable up to 512GB		
15	Bus Slots	Minimum of 2 PCI expansions/ Mezzanine 09 Bus Slots expansions.		
		Bus slots should support for Dual/Quad Gigabit, Dual 10Gbps for increased bandwidth and additional network port requirements.		
16	Diagnostics	Pre Failure Notification for all active and important components like processors, Memory, Hard drives, etc. and automatic calls logging.		
17	Security	Power-on password, administrator password.		
18	OS Support	Windows Server 2019 Standard/Data centre Edition down gradable to Windows Server 2016 or windows server 2012, RHEL 7.3 or higher, Cent OS.		
19	EXPANSION SLOTS	Minimum 4 nos of PCI express slots, out of which two ports to be kept free and 2 for HBA cards.		

20	Systems Management and Diagnostics	Standard management features by Server OEM only. Vendor should provide unified management suite that can monitor and manage all the servers deployed by vendor at delivery site using a single console. The server should come with systems management software to provide update management, configuration management, patch management and virtualization management. The software should be able to Cap data based on the report.		
21	Certification and industry standards compliant	1. The offered model to be listed in tpc.org or spec.org		
		2. Certified for Microsoft Windows		
		3. The offered server model should certified for at-least two of the following three certificates (UL, FCC, ROHS)		
22	POWER SUPPLY	Redundant Power Supply with necessary power cables/cords		
23	Delivery	All the necessary tools & tackles licenses, cables / connectors for Ethernet / Fibre / USB / Power etc. required for making the system operational shall be provided by the bidder.		
24	Warranty	3 year onsite warranty with 2 Years AMC with 99.98% uptime calculated on quarterly basis. Offered server should carry direct warranty from OEM (24 x 7 call logging with 6 hours call to resolution cycle) and the same should be substantiated by necessary supporting document.		
25	Industrial Standard Compliance	ACPI 2.0 Compliant, PCI 2.0 or higher Compliant, WOL Support, MS Logo Certification, USB 2.0 Support.		
26	HBA's **minimum** 2x8 Gbps Fibre HBA card (Multipathing and load sharing)			

* Any line item given above, if not complied, will entail rejection of the bid.

Specification for Blade Server Chassis/Enclosure

Sl. No.	Features	Specification Required	Offered Specification	Complied (Y)
1	Form Factor	Blade Enclosures/Chassis to house at least **8 half blade Servers**		
2	IO Modules	• The chassis must have Server side FCoE connectivity in case bidder is quoting Converged Network Adapter on to the blade server. • The chassis must have Server side 10 Gig Ethernet connectivity and 8 Gig Fiber Channel connectivity in redundancy in case bidder is quoting separate 10 G Ethernet NIC and 8 Gig FC HBA on to the blade server. •The vendor needs to provide additional / external Network (10 Gig) and FC Fabric switches (8 Gig), in case they are proposing Pass-Thru modules in the solution. In case direct FC connectivity is not supported on the Chassis or enclosure, 24 port SAN switches should be provided separately. Bidder should integrate the network connectivity for blade servers with Bank's existing core switch 'CISCO catalyst 4506 series' having SFP 10 G LRM module.		
3	Midplane	Chassis should have a highly reliable passive mid plane for providing connectivity of the shared resources to the compute nodes in a highly reliable manner.		
4	Power Modules	The enclosure should be populated fully with power supplies of the highest capacity available with the vendor. Power supplies should support N+N as well as N+1 redundancy configuration, where N is greater than 1.		
5	Chassis Management Module	Solution Should provide management capabilities to manage controlling Power, Fan management, Chassis and compute node initialization, Switch management, Resource discovery and inventory management, Resource alerts and monitoring management, Chassis and compute node power management and diagnostics for elements including Chassis, I/O options and compute nodes.		
6	Support for Multiple Platform	Should provide support for multiple platforms in x86 servers within the same enclosure. **The hardware should be used as virtual machine having multiple OS platform for various applications.**		
7	Cooling	Each blade enclosure should have a cooling subsystem consisting of redundant hot pluggable fans or blowers enabled with technologies for improved power consumption and acoustics		
8	Warranty	**3 years** comprehensive warranty with 24x7 Support		
9	Alerts	The server should be able to alert impending failures on maximum number of components. The		

		components covered under alerting mechanism should at least include Server components, Storage components, Switch components and Chassis components. It should also be able to provide "Call Home" type of alert.		
10	Integrated Management User Interface	The proposed solution should have an Integrated management where integration of Servers, Storage, Networking and other available hardware resources in the solution are managed using a common GUI. **If any solution is required, the same has to be provided by the bidder As per Banks Requirement.**		

* Any line item given above, if not complied, will entail rejection of the bid.

यूको बैंक UCO BANK

Specifications for 42 u Rack

SI No.	42U Server Rack should compatible with the Server and storage Models	Offered Specification	Complied (Y)
1	Make		
2	Model		
3	Usable Space		
4	Floor Standing With Caster and Breaks		
5	Back Power Coated		
5	Stationary Self/Tray For Monitor		
7	Made of Aluminum Extruded Frame Structure		
8	19" Keyboard On Slides		
9	Front Glass and Rear Net Doors		
10	Side Panel With Latches		
11	Fan Mounted On Top With 4 Or More Fans		
12	Ventilated Top Cover		
13	16 Port KVM Switch with Foldable 17" TFT LCD monito+ 104 Keys Window Keyboard+ Touchpad		
14	KVM Cables 1.8 mtrs 6 Nos 3mtrs-2nos		
15	Vertical and Horizontal Cable Manager		
16	Power Strip (Both Indian & USA Standard type of socket)		
17	AC Mains 12 Point Vertical		
18	Front Panel Mounting Hardware		

Specification for SAN (Storage Area Network)

Sl. No.	Item	Specifications	Offered Specification	Complied (Y)
1	Storage System (Rack mountable storage system)	Fiber Channel External Storage System with two RAID Controllers. Each Raid array controller should support Raid levels 0, 1, 5 and 1+0 implementations. Storage should have high availability feature with no single point of failure. Storage should have minimum 60 Gbps front end throughput and minimum 8 no. of FC front end ports. Storage should be supplied with all required licenses to connect at least 10 no: of servers as well OS such as Red Hat Enterprise Linux 6.x or higher, Windows server 2012 (both standard and datacenter editions) or higher. The usable capacity of SAN. Storage-1:Usable storage space of 125 TB having Raid 1+0 To be Placed at BDC. Storage-2.Usable Space of 90 TB having Raid 1+0 to be place at KDC.		
2	Raid Support	1. Offered Storage Subsystem shall support Raid 0, 1, 1+0, 5 and Raid 6. Must support inter-mixing different RAID groups with one storage system. Different type of RAID levels should co-exist within the same array simultaneously to match different protection requirements of Data.		
3	Cache Memory	1. Offered Storage Array shall be given with **Minimum of 128GB** usable cache **across dual controller**. 2. Shall have dynamic management of Cache block size. Cache should be mirrored between the Active-Active controllers (load balancing). The paths should be redundant (at least 2 paths) to prevent disruption if one path fails. Must support either Cache battery backup for a minimum of 72 hours or fully automatic de-stage of cache to disks or it should be non-volatile DIMM (NVDIMM) during power failure to prevent possible data loss. 3. Cache shall not have any overhead for the operating system.		
4	Bays	Offered storage should support SSD hot swappable hard disk bays to accommodate above no. of hard disks and upgradable to 100 HDDs supporting 1 TB or higher hot swappable hard disk drives. Offered storage shall have minimum of 8 host ports for connectivity to servers.		
5	Hard disk drives	The storage array shall be offered with 1 TB or higher hot swappable hard disk drives, the Storage should support SAS based SSD Drive, mix and match of different type of spindles should be supported behind the same pair of controllers. The Storage shall be scalable to minimum 200 TB.		
6	Power supply	n +1 redundant hot swap power supply units		

7	Fans	n +1 redundant hot swap fans		
8	Management Software	Storage Array Configuration management and Performance Management Software should be provided. **(Storage Management Solution should also provide Historic Reports.)**		
9	Operating System (supporting)	1.The SAN should be accessible from servers having Windows Server 2012 or higher Edition, both 64 bit & 32 bit, Linux, RHEL, Cent OS, Unix etc. 2. Offered Storage Shall support all above operating systems in Clustering.		
10	No Single Point of Failure	Offered Storage Array shall be configurable in a No Single Point of failure configuration including Array Controller card, Cache memory, FAN, Power supply etc.		
11	Data Protection	**1. In case of Power failure, Storage array shall be able to hold data in the cache for at-least 72 hours of time or shall support de-staging to disk drives. Bidder shall ensure that in case of de-staging, dual redundant Standby power supplies are configured.**		
		2. For optimal data protection, storage shall support distribution of metadata on more than one drive shelf. (i.e., For optimal data protection, storage should have full protection of metadata.)		
		3. Storage should have Thin provisioning, snapshots, clone & Auto Tearing.		
12	Maintenance	Offered storage shall support online non-disruptive firmware upgrade for both Controller and disk drives		
13	Fiber Channel Switches with necessary cables (2 numbers)	Minimum of 16x8-Gbit ports,scalable up to 24X8 Gbit ports. Each port should be 8 Gbps with auto sensing support for 4 Gbps. must have inbuilt diagnostics, power on self-test, command level diagnostics, online and offline diagnostics capabilities, support online- firmware upgrades, Power supply, Fan Assembly and all the components shall be Hot Swappable SFP etc.		
14	On-line RAID Group Expansion	The storage array must support RAID 0, 1, 5, 6, 1+0 levels with online expansion of RAID Group/Disk Group. Must support online expansion of volumes. Must be able to add additional disks on the fly to expand the RAID group capacity.		
15	Snapshot and Full Copy/Clone Functionality	The array should support controller-based functionality for pointer based snap copies as well as full physical copies.		
16	Mirroring / Replication	i) The storage array should support both Sync and **Async mode** data replication at the storage controller level.		
		ii) The storage array must have the capability to do array based remote replication using FCIP or IP technology.		
17	Data in Place upgrade	The proposed storage must support seamless data-in-place upgrade of existing storage controllers without having to change the disk subsystem.		
18	Storage Management	Storage Management Software should be provided with simple to use Browser based interface and CLI		
19	Data Compression	Storage array should support both Compression and de-duplication for SAN Only. **The Storage specifications will be limited up to SAN only.**		

20	Software / Firmware	Should Support online firmware upgrade of firmware, etc. without a need for downtime.		
21	Online LUN migration for flexibility of redeployment	The array should support online LUN migration (transparent movement of volumes within the array). The functionality should allow cross RAID migration and cross spindle migration (e.g. 600GB SAS to NL-SAS etc.)		
22	Warranty	**3 years** comprehensive warranty with 24x7 Support		
23	Virtualization Integration	i)The Storage should be fully certified for all supported protocols to virtualized application environments. ii)The storage solution should be capable of providing multi-pathing software with failover and load-balancing functionality for the virtualised OS.		

* Any line item given above, if not complied, will entail rejection of the bid.

यूको बैंक UCO BANK

BILL OF MATERIALS
(To be submitted with Technical Bid)

SI No	Item Description	Unit	Make	Model	Specification	Additional Information
1.	**Type-I Server**					
2.	**Type-II Server**					
3.	**TYPE-III Server**					
4.	**Type-IV Server**					
5.	**Type-V Server**					
6.	**Type-VI Server**					
7.	**Blade Enclosure**					
8.	**42U Server Rack**					
9.	**16 KVM Monitor**					
10.	**San Storage-1 (125 TB usable capacity using 1 TB or higher SSD Drives)**					
11.	**San Storage-2 (90 TB usable capacity using 1 TB or higher SSD Drives)**					
12.	**FC Switch 24 Port with necessary cables and accessories**					
13.	**LTO ver. 6 or higher version Tape Drive**					
14.	**LTO ver. 6 or higher Tape**					
15.	**Windows Server 2019 Standard edition down gradable to Windows Server 2016 and windows server 2012**					
16.	**Windows Server 2019 data centre edition down gradable to Windows Server 2016 and windows server 2012**					
17.	**RHEL 7.3 or higher versions (for physical server 2 socket)**					
18.	**Data Base Licenses Oracle (12 C R2 Enterprise Edition)**					
19.	**MS SQL 2016(Standard Edition)**					
20.	**MS SQL 2016(Enterprise Edition)**					
21.	**MY SQL 2016 (Latest edition)**					
22.	**Microsoft system center required License (For VMM)**					
23.	**Backup & Restoration S/W**					
24.	**Any other hardware/software components (Please specify)**					

Note: All components and its detail specification and other Items required for the proposed solution to be specified.

Commercial Bid

(Amount in Rs.)

Sl. No.	Item Description	Make and Model	Quantity (x)	Unit Price (Y)	GST%	GST Amount	Total Unit Price Z=(X*Y)
	(1)		(2)	(3)	(4)	(5)	(6)
	A.HARDWARE						
1.	Type-I Server		8				
2.	Type-II Server		2				
3.	TYPE-III Server		5				
4.	Type-IV Server		7				
5.	Type-V Server		15				
6.	Type-VI Server		4				
7.	Blade Enclosure		2				
8.	42U Server Rack		2				
9.	16 KVM Monitor		2				
10.	San Storage-1 (125 TB usable capacity using 1 TB or higher SSD Drives)		1				
11.	San Storage-2 (90 TB usable capacity using 1 TB or higher SSD Drives)		1				
12.	FC Switch 24 Port with necessary cables and accessories		4				
13.	LTO ver. 6 or higher version Tape Drive		2				
14.	LTO ver. 6 or higher Tape		40				
	SUB TOTAL (A)						
	B.SOFTWARE LICENSE						
15.	Windows Server 2019 Standard edition down gradable to Windows Server 2016 and windows server 2012						
16.	Windows Server 2019 data centre edition down gradable to Windows Server 2016 and windows server 2012						

17.	RHEL 7.3 or higher versions (for physical server 2 socket)						
18.	Data Base Licenses Oracle (12 C R2 Enterprise Edition)						
19.	MS SQL 2016(Standard Edition)						
	MS SQL 2016(Enterprise Edition)						
20.	MY SQL 2016 (Latest edition)						
21.	Microsoft system center required License (For VMM)						
22.	Backup & Restoration S/W						
	SUB TOTAL (B)						

Note: (i) Bidder should quote price of licenses by specifying no of licenses based on "List of Servers for calculation of required number of Licenses "

(ii) Bank will decide the actual quantity based on requirement.

C. AMC

	Item Description	Quantity (x)	Unit Price (Y)		GST%	GST Amount	Total Unit Price Z=(X*Y)
			4th Yr	5th Yr			
23.	Type-I Server						
24.	Type-II Server						
25.	TYPE-III Server						
26.	Type-IV Server						
27.	Type-V Server						
28.	Type-VI Server						
29.	Blade Enclosure						
30.	42U Server Rack						
31.	16 KVM Monitor						
32.	San Storage-1 (125 TB usable capacity using 1 TB or higher SSD Drives)						
33.	San Storage-2 (90 TB usable capacity using 1 TB or higher SSD Drives)						
34.	FC Switch 24 Port with necessary cables and accessories						
35.	LTO ver. 6 or higher version Tape Drive** with Backup & Restoration S/W						
	SUB TOTAL (C)						

	Item Description	Quantity (x)	Unit Price (Y)				GST%	GST Amount	Total Unit Price Z=(X*Y)
			2nd	3rd	4th	5TH			
	D. ATS								
36.	**Windows Server 2019 Standard edition down gradable to Windows Server 2016 or windows server 2012**								
37.	**Windows Server 2019 data centre edition down gradable to Windows Server 2016 or windows server 2012**								
38.	**RHEL 7.3 or higher versions**								
39.	**Data Base Licenses Oracle**								
40.	**MS SQL (Standard Edition)**								
41.	**MS SQL (Enterprise Edition)**								
42.	**MY SQL**								
43.	**Microsoft system center required License (For VMM)**								
44.	**Backup & Restoration S/W**								
	SUB TOTAL (D)								
	E.IMPLEMENTATION COST								
45.	**One Time Implementation Cost (For DR Set up of VM Environment, Backup solution implementation, DB implementation, Replication between DC-DR and other server installation as defined in Technical BOM & Scope of Work)**								
	SUB TOTAL (E)								
	F.FACILITY MANAGEMENT								
46.	**Facility Management Cost 1st year**								
47.	**Facility Management Cost 2nd year**								
48.	**Facility Management Cost 3rd year**								
49.	**Facility Management Cost 4th year**								
50.	**Facility Management Cost 5th year**								
	SUB TOTAL (F)								
	G.Others								
51.	**License up gradation cost (Up gradation of MS SQL2008 Enterprise Edition to MS SQL 2016),If any**								
52.	**Any other item required for the above implementation, please specify**								
	SUB TOTAL (G)								
	Total Cost of Ownership [A+B+C+D+E+F+G] (in figures)								
	Total Cost of Ownership [A+B+C+D+E+F+G] (in words)								

*Backup Solution should integrate with existing and new proposed VM infrastructure.

**should have minimum capacity of mounting 8 Tapes at a time.

<u>Note:</u>

a.   The calculation for arriving at TCO is properly mentioned in the appropriate columns and we confirm that the above mentioned rates are accurate. In case of any anomalies in the calculation for arriving at TCO, the Bank will have the right to rectify the same and it will be binding upon our company.

b.   If the cost for any line item is indicated as zero or blank then Bank may assume that the said item is provided to the Bank without any cost.

c.   Bank has discretion to keep any of the line item mentioned above as optional as per Bank's requirement.

d.   We have ensured that the price information is filled in the Commercial Offer at appropriate column without any typographical or arithmetic errors. All fields have been filled in correctly.

e.   We have not added or modified any clauses/ statements/ recordings/ declarations in the commercial offer, which is conditional and/or qualified or subjected to suggestions.

f.   We have not added or modified any clauses/ statements/ recordings/ declarations in the commercial offer, which contain any deviation in terms & conditions or any specification.

g.   We have understood that in case of non-adherence to any of the above, our offer will be summarily rejected.

h.   In case of any discrepancy between figures and words, the amount in words shall prevail.

i.   Please note that any Commercial offer which is conditional and/ or qualified or subjected to suggestions will also be summarily rejected. This offer shall not contain any deviation in terms & condition or any specifications, if so such offer will be summarily rejected.

j.   All prices should be quoted in (INR) only.

k.   The TCO (Total cost of ownership) will be exclusive of GST and other applicable taxes. However the GST and other applicable taxes will be paid as per actuals.

l.   **<u>The quantity mentioned above is only indicative and may change at the time of issuance of Purchase Order to the L-1 bidder.</u>**

Place: **Signature of Bidder:** _____

Date: **Name:** _____

                               Business Address: _____

Part-V

2. Delivery and Installation

The Bank reserves the right to shift the ordered items to any location where bank has presence or its Technical Partners, anywhere in India, during the warranty period.

Supply, Installation and up-gradation should be completed within 12 weeks of Purchase Order. The delay period of site readiness will not be included in above-mentioned delivery and installation period.

5. Performance Bank Guarantee

The Selected bidder, within 15 days from the date of letter of intent will have to furnish a Performance Bank Guarantee, format as per **Annexure – G**, issued by any scheduled commercial bank (other than UCO Bank) equivalent to 10% of the project cost valid for 63 months (60 months + a claim period of 3 months) from the date of Letter Of Intent(LOI).However, in case of any additional PO over and above the TCO, fresh PBG equivalent to 10% of new order value to be submitted for 63 months from the date of respective POs. **Further, the selected bidder may have to extend the validity of the Performance Bank Guarantee for a period of AMC/ATS as required by the Bank**. Upon furnishing the Performance Bank Guarantee, the EMD of the selected bidder shall be returned.

The Performance Bank Guarantee shall act as a security deposit and either in case the selected bidder is unable to start the project within the stipulated time or start of the project is delayed inordinately beyond the acceptable levels, the Bank reserves the right to forfeit the same.

Further, the Bank reserves the right to invoke the Performance Bank Guarantee in case the selected bidder is not able to fulfill any and all conditions specified in the document or is unable to complete the project within the stipulated time. This is independent of the LD (Liquidity Damage) on Delivery and installation.

In case the contract is getting extended, the selected bidder shall submit the Bank Guarantee of 10% of the project cost of that period of time with a validity of the extension period with 3 months claim period.

7. Payment Terms

50% of the order value along with applicable taxes on actual basis will be paid on successful delivery.

40% of the order value along with applicable taxes on actual basis will be paid on successful user acceptance after delivery, installation of the ordered items, after realizing penalty charges for late delivery and / or late installation, if any. The claim of payment should contain proof of delivery, installation note and User Acceptance Report signed with date by an authorized official of UCO Bank at the respective sites, waybill etc.

Remaining 10% of the cost along with applicable taxes would be paid after one year from Go-live and successful operation. However, payment may also be released before one year period on submission of an additional Bank Guarantee of equal amount having the validity of 1 year.

AMC for Hardware shall be paid in quarterly arrear basis.

ATS on software item shall be paid in yearly in advance basis.

Payment for FM services shall be paid in quarterly arrear basis.