



CONSUMERFED



**TENDER DOCUMENT FOR
ANNUAL MAINTENANCE
CONTRACT OF DELL & HP
SERVERS**

Kerala State Co-operative Consumers' Federation Ltd
Gandhinagar, Ernakulam, Kochi – 682 020

Tel: 2203507, 2203652, 3290220, 3290223. Fax: 91-484-2203796

E-mail: cfeditdivision@gmail.com; Website: www.consumerfed.net



Kerala State Co-operative Consumers' Federation Ltd.
GANDHI NAGAR, ERNAKULAM, KOCHI-682 020
TEL: 2203507, 2203652, 3290220, 3290223. FAX: 91-484-2,203796
E-mail: econsumerfed@gmail.com, Website: www.consumerfed.net

Tender Document No: CFED/ITD/AMC/SERVER/2020-2021 dated
03.06.2020

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Forwarding letter

(To be filled by the tendering party)

From

.....

.....

.....

To

The Managing Director
Kerala State Co-operative Consumers' Federation Ltd
Gandhinagar, Kochi – 682 020

Sir,

Sub: Tender for Annual Maintenance Contract of Dell & HP Servers.
Ref: Your tender Notice No.CFED/ ITD/AMC/SERVER/2020-2021 dated
03.06.2020

Sir,

We are submitting herewith our tender for the Annual Maintenance Contract of Dell and HP Servers as specified in the tender form and as laid in tender documents. We have read and understood all the terms and conditions of the tender. We agree to abide by these terms and conditions. We are enclosing herewith your cash receipt / Demand draft no.....dated.....as a proof of having purchased the non-transferable tender document. Accordingly we are enclosing herewith our Earnest money deposits in the form Bank Guarantee/Bank draft no.....Dated.....for Rs/- (Rupees in words:.....drawn in Favour of Managing Director, Kerala State Co-operative Consumers' Federation Ltd for above mentioned requirements.

Yours faithfully,

Place

Signature of Tenderer with seal:

Date :

**Tender Document No: CFED/ ITD/AMC/SERVER/2020-2021 dated
03.06.2020**

TENDER NOTICE

Sealed tenders are invited for the **Annual Maintenance contract of Dell & HP Servers** in Consumerfed. The details on servers are appended in Annexure "A". Tenders are to be received on or before 16.06.2020 Managing Director reserves the right to accept / reject the Tenders without assigning reason whatsoever.

Tender Document No: and Date	<u>CFED/ITD/AMC/SERVER/2020-2021 dated 03.06.2020</u>
Tender Document fees	400+12% = 448/-
EMD Amount	5% of estimated value of rate quoted
Due date and time for receipt of Tender	16.06.2020 2PM
Date and time for opening of Tender	16.06.2020 3 PM

CONSUMERFED

Managing Director

Detailed Terms & Conditions

Tender Document Fees

A non-refundable tender document fee of Rs. 448/- may be remitted in cash for the issue of Tender document for “**Annual Maintenance contract of Dell Servers**”. The tenders those who are downloading the tender documents from our website www.consumerfed.net may remit the cash of tender document at the time of submission of tender or submit Demand draft for the value along with the tender on submission. The firms / institutions / Tenderers those who are exempted from Tender Document fees should produce necessary government orders for the same. The tenders submitted without remitting tender document fees shall not be considered.

Earnest Money Deposit

1. The party shall be required to deposit 5% Earnest Money of estimated value of rate quoted in Annexure “A” by way of Bank Draft/Fixed Deposit Receipt/Bank Guarantee drawn in favour of ‘Managing Director, Kerala State Co-operative Consumers’ Federation Ltd.’
2. The Tenderer may submit a request for treating the amount due to them from Consumerfed as Earnest Money Deposit and Consumerfed have full right to accept / reject the request. This request may be accompanied along the tender document by the tenderer.
3. EMD furnished by all unsuccessful tenderers shall be returned to them without any interest whatsoever, at the earliest after expiry of the final tender validity period but not later than 30 days after conclusion of the contract. EMD of the successful tenderer shall be returned, without any interest whatsoever, after receipt of performance security from it as called for in the contract.
4. The firms / institutions / Tenderers those who are exempted from Earnest Money Deposit should produce necessary government orders for the same.

Terms & Conditions

1. The validity period of this tender is for 30 days.
2. Acceptance of the tender constitutes a concluded contract. Nevertheless, the successful tenderer must within a fortnight/a month after the acceptance of his tender furnish 5 per cent of the amount of the contract as security deposit and execute an agreement at his own cost for the satisfactory fulfillment of the contract, if so required. This security deposit shall be released on successful completion / execution of the order. The firms / institutions / Tenderers those who are exempted from Security Deposit should produce necessary government orders for the same.
3. Withdrawal from the tender after it is accepted or failure to supply within a specified time or according to specifications will entail cancellation of the order and purchases being made at the offers expenses from elsewhere, any loss incurred thereby being payable by the defaulting party. In such an event the Consumerfed reserves also the right to remove the defaulter's name from the list of suppliers of Consumerfed for the next two years.
4. Any tender received after the time fixed on the due date is liable to be rejected.
5. The tenders shall be opened in the presence of the tenderers or his authorized representatives. The tenderers representative shall furnish the authorization letter of the concerned authority to participate in the tender.
6. The contractor shall provide maintenance service to keep the Servers in good and efficient working condition covered under this contract, as specified in Appendix 'A'. In addition to this, the contractor should provide preventive and corrective maintenance of Servers on quarterly and should get verified from authorized official of the concerned group. The institution should also carry out necessary repairs and provide SUITABLE replacement (equivalent or higher configuration) of defective part(s) / equipment's as required.

7. The AMC is comprehensive i.e. no cost of parts replaced by tenderer will be borne by Consumerfed.
8. The break down calls registered by users must be attended promptly and if they are not rectified within two days, the penalty clause will be applicable as detailed below. Maintenance of all the Servers pertaining to these would be the responsibility of the tenderer.
9. Agreement between Tenderer and Consumerfed will remain in force for period of one year from the issue date supply order.
10. Consumerfed has the right to move Servers between any units of the Consumerfed. This equipment however will continue to be under AMC at the new location.
11. The service provider will be responsible for any mishap or accident or untoward incidence during the maintenance of machine which may occur due to negligence of the service engineer.
12. The service provider shall be responsible for the discipline and good conduct of their service engineers.
13. Vendor should have enough spare parts of servers at their service Centres so that servers could be repaired timely. Engineers must be fully equipped with maintenance tool kit and accessories.
14. Vendor should have minimum of 4 years' experience in the field of Service support of servers.
15. The tender has to produce necessary certificates from the Dell that the tenderer has obtained necessary back end arrangement with Dell for providing AMC of servers.
16. The scope of work includes Fault fixing, repairs, replacement of spares and attending to any number of breakdown calls
17. The preventive maintenance (PM) to be carried out once in 3 month.
18. To provide proper service the Maintenance Agency should have tie up/ arrangements with manufacturers / its representatives / dealers for resource access and back up support in case of need.

19. Parts replaced shall always conform to the specification of Original Equipment Manufacturer and Consumerfed's acceptance should always be sought before the part is replaced
20. Whenever the part is to be replaced by the Agency the party shall obtain prior approval of acceptance or inspection by Consumerfed before a part of the equipment is replaced. The party should accept the equipment for maintenance contract on "as is where is" basis. However, Consumerfed shall duly consider operating and environmental recommendations from the Maintenance Agency but Consumerfed decision on such matters shall be final and binding on the Maintenance Agency
21. Maintenance Agency shall make attempts to provide standby components when on site maintenance of the equipment is not feasible
22. Maintenance Agency should provide option to open direct tickets from OEM (DELL) through OEM call centre/OEM support E-mail ID
23. The spares used for replacement should be new. Old spares should not be reused
24. Service engineer should submit JOB COMPLETION CERTIFICATE certified by user at each complaint. The one copy of certificate to be retained by user group and another to be given to the unit which has reported the complaint and one copy along with contract bill as a compilation of job work done by the firm.
25. To the extent possible, all repair and maintenance work would be carried out in the office premises only. Wherever it is not possible to conduct the repair within the office premises the tenderer shall obtain prior permission of the competent authority to conduct repair outside the office premises. In such cases no transportation charges shall be provided shall be paid.

- 26.No advance payments shall be made. The payment will be released on quarterly basis on the submission of Preventive Maintenance certificates.
- 27.No transport will be provided to the service engineer for maintaining Servers. The engineer shall use his own vehicles for reporting different divisions of Consumerfed located at all over Kerala. No transportation allowances will be allowed.
- 28.The performance of the Vendor shall be reviewed periodically and if found grossly unsatisfactory at any stage then termination of contract may be done. In such cases Consumerfed has the right to forfeit the EMD amount / Security deposit / Balance pending payments due to the tenderer etc towards the losses if any incurred consequent to the cancellation of the contract.
- 29.Special conditions, if any, printed on the quotation sheets of the tenderer or attached with the tender will not be applicable to the contract unless they are expressly accepted in writing by Consumerfed.
- 30.Any attempt on the part of tenderers or their agents to influence the Officers concerned in their favour by personal canvassing will disqualify the tenderers.
- 31.Any query kindly e-mail to cfeditdivision@gmail.com or fax to 0484-2203973 and mention in the subject "Tender for Annual maintenance contract of Dell & HP Servers".
- 32.The vendor have no right, to give, sell, assign or sublet or otherwise dispose of contract to a third party. The vendor may outsource certain noncritical activities in the scope of work like installation of a equipment to a third party after prior written consent from Consumerfed. However, such consent shall not relieve the supplier from any liability or obligation of the contract.
- 33.Consumerfed does not bind itself to accept the lowest or any quotation. Managing Director, Consumerfed reserve the right to accept or reject any

quotation in full or part, and to suspend this process and reject all tenders or part at any time prior to the award of contract.

34. The firm shall not take any advantage of any misinterpretation of the conditions in the tender notice due to typing or any other error and if any in doubt shall bring it to the notice of the Consumerfed authorities without delay. In case of any contradictions, only the printed rules and books should be followed and no claim for the misinterpretation shall be entertained.

35. Each page of the Tender Document shall be signed by person/s on behalf of the organization having necessary authorization/ Power of Attorney to do so.

36. This Tender / Request for Proposal (RFP) is not an offer by Consumerfed but an invitation for tenderers response. No contractual obligation whatsoever shall arise from the tender process



FORCE MAJEURE

If the Maintenance Agency is unable to comply with the provision of the contract or creative delays due to reason of Force Majeure such as acts of god, acts of public enemy, acts of Government, fires, floods, earthquake, epidemics, restrictions, strikes and freight ernbargoes, the maintenance agency shall immediately inform Consumerfed in writing of his inability. The Consumerfed in receipt of such notice after certification if necessary, may agree to the same as may be reasonable but without prejudice to other terms and conditions of the contract

ARBITRATION

If at any time, dispute or difference whatsoever arises between Managing Director, Consumerfed and the Maintenance Agency in connection with this contract, the same shall be settled amicably. In case both the parties are unable to resolve the dispute amicably, the same shall be referred as Arbitration case under KCS act and Rules.

JURISDICTION

The jurisdiction for the purpose of settlement of any dispute or differences whatsoever in respect of or relating to or arising out of or in any way touching this contract or the terms and conditions there or the contraction/interpretation thereof shall be that of Ernakulam jurisdiction only.

COST DETAILS AND VALIDITY:

Prices quoted shall be in Indian Rupees, shall be firm and shall not be subject to exchange rate variations, fluctuations in price, Labour conditions and freights or any conditions whatsoever. The quoted Rate / Cost should be inclusive of all levies/ taxes like Service tax, GST, Educational cess, Sales Tax, Transportation, Customs, Excise, traveling charges etc, if any

PENALTY FOR DEFAULT IN SERVICES:

All complaints booked will have to be rectified on the next working day. In case the firm fails to rectify within the time frame it has to provide a standby identical system on the next working day before 11.00 Hrs and take parallel action for repairing. If the firm fails to make the system working by any of the two options, penalty of Rs. 500/- (Rupees Five Hundred only) will be imposed per working day per system. Fault booked will be treated as rectified if and only if the AMC Contractor gets satisfactory report from the user on the date of rectification. If the Servers is not repaired within three working days after reporting the complaint, the penalty charge will be levied at the rate of 1 % per week of AMC value and there after the machine can be repaired from outside at the risk and expense of the firm.

In case of non-adherence to preventive maintenance schedule, a penalty of 10% of the total of AMC charges for the Quarter for every such failure in a quarterly schedule will be recovered

In case of fault where no STAND BY is provided and fault persists beyond ONE WEEK or faulty equipment is taken by vendor for repair and not returned within ONE WEEK after repair, Consumerfed shall be at liberty to get the same repaired from outside source and recover the cost from AMC Vendor from the pending AMC bill or from performance security deposit.

In case any damage/ loss is caused due to mishandling or improper rectification of fault or otherwise the loss shall be recovered from the vendor.

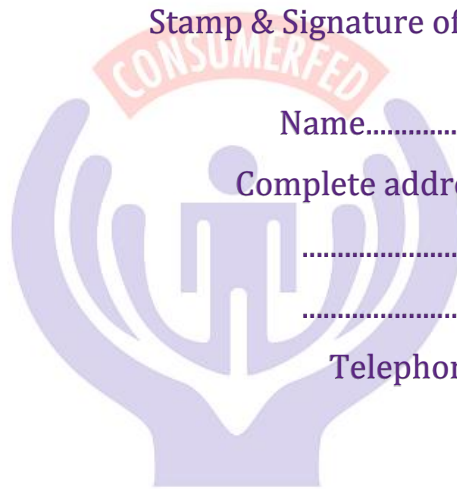
CERTIFICATE OF ACCEPTANCE OF TERMS & CONDITIONS

I/We have read and fully understood the terms & conditions as laid down above in respect of tender for Annual Maintenance Contract of Server.

I/We agree to abide by the same.

I/We have signed all the pages of the Tender Document Booklet as laid down.

Stamp & Signature of the authorized Signatory



Name.....

Complete address.....

.....

.....

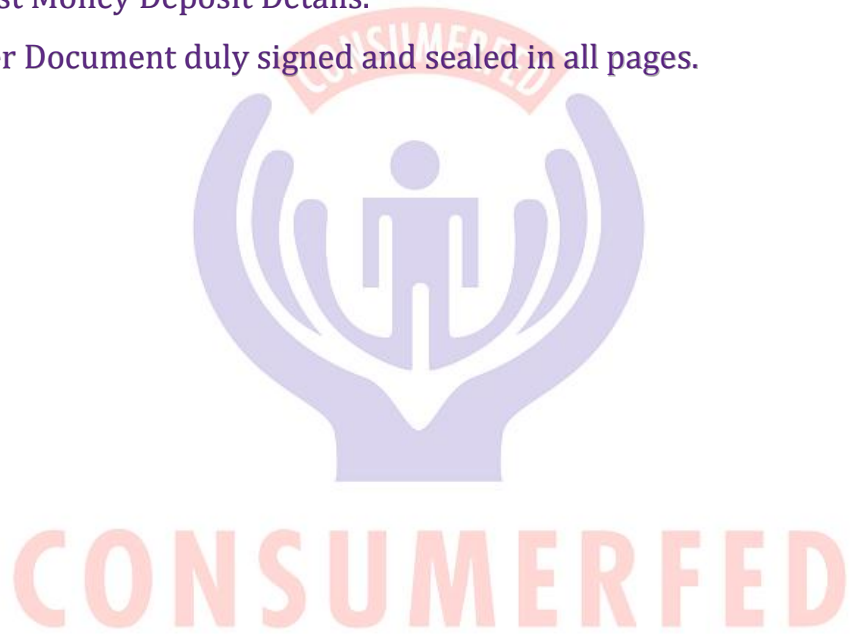
Telephone & FAX Nos.....

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ACCOMPANIMENTS WITH THE TENDER

Tenders shall be accompanied with the copy of following documents

- | | |
|--|----------|
| 1. Sales Tax/GST Registration Certificate. | Yes / No |
| 2. PAN/TAN | Yes / No |
| 3. Service Tax Registration Certificate. | Yes / No |
| 4. Certificate/Proof/Copy of work orders from references | Yes / No |
| 5. Company Profile | Yes / No |
| 6. Authorization Letter from Dell | Yes / No |
| 7. Earnest Money Deposit Details. | Yes / No |
| 8. Tender Document duly signed and sealed in all pages. | Yes / No |



Annexure A

COMMERCIAL TENDER

ANNUAL MAINTANANCE CONTRACT OF SERVER

RATE TO BE QUOTED FOR

No	Item	Quantity	Rate without Tax
1	Database server in HO	2 Nos	
2	Application server in HO	1 No	
3	FTP Server in HO	1 No	
4	Domain Server in HO	1 No	
5	Database Server in RO/ZO	15 Nos	
6	Storage in HO	1 No	
7	Tape Drive in HO	1 No	
Total			
GST (%)			
SERVICE TAX (%)			
WCT (%)			
OTHER TAXES (%)			
GRAND TOTAL			

GRAND TOTAL IN WORDS :

VALIDITY OF OFFER TO BE CLEARLY SPECIFIED HERE:

OTHER OFFERS / REMARKS OF THE TENDERER

Seal and Signature

Date :

TECHNICAL SPECIFICATION OF SERVERS

Database Server -2 Units. (DELL) in Head Office		
S.No	Parameter	Specifications
1	Processor	Intel(R) Xeon(R) Processor X5650 2.66GHz, 12MB cache, 6.4 GT/s QPI, Turbo, HT, 6C
2	No of Processors	The System has to be supplied with 2 Processors
3	Chipset	5520
4	Memory	32 GB using 4GB LV RDIMMS Operating at 1333 MHz
5	Number of Memory Slots	18 DIMM Slots supporting DDR3 Memory expandable Up to 288GB
6	Hard Disk	3 Nos of 300GB 15K RPM SAS Hard Drive on RAID 5
7	No of Hard Disk bays	6 Nos of 2.5 inch HDD
8	RAID Controller	RAID Controller with 512MB cache
9	Optical Drive	DVD-Read Write Drive
10	Ethernet Ports	4 Nos of Gigabit Ethernet Ports
11	I/O Slots	A total of 4 PCI Express Slots with a minimum of 2 Nos of PCI-Express X8 Slots
12	SAN Connectivity	2 nos of single port 8 GBPs FC HBA
14	Embedded Hypervisor support	The server should have Provision to hold embedded Hypervisors VMWARE & CITRIX thru on-board SD cards in redundant and Mirrored mode
15	Remote Management	Remote Management with Dedicated Management /Network Interface and option for 8GB Flash storage for storing firmware and utilities and PRE-OS Image thru Partitioning The remote management port should support IPv4, IPv6, VLAN Tagging
16	Systems Management	The systems Mangement software should have the following Functionality Deployment of Multiple Servers from a Single Console Monitoring of Servers Update of System Software Graphical User Interface for local server provisioning in a Pre-OS environment Integration with OEM support to update the Server Configurator, Remote Management Controller, RAID Controller, BIOS, NIC, and Power Supply Diagnostic tolls embedded on the system Scripting Capability and support for command line Remote Media Access with Virtual Media Remote video, keyboard, and mouse control with Virtual Console Sensor Monitoring and Alerting Real time Power Monitoring Ability to capture last crash screen Power control of the servers
17	Form Factor	Rack 2U
18	Rack Mount Kit	2U sliding rail
19	Power Supply	Redundant Power Supply
20	Warranty	3 Years onsite warranty with 24/7 support from OEM
21	Operating System Certification	The system should be certified for Citrix Xen Server Microsoft Hyper-V VMWARE Vshpere 4.1 RedHat Enterprise Linux SUSE Linux Enterprise Server Microsoft 2008 R2 X64

APPLICATION SERVER (DELL) – 1 No in Head Office

S.No	Parameter	Specification
1	Processor	Intel(R) Xeon(R) Processor X5650 2.66GHz, 12MB cache, 6.4 GT/s QPI, Turbo, HT, 6C
2	No of Processors	The System has to be supplied with 1 Processors
	Processor socket	2
3	Chipset	Intel 5500 Chipset
4	Memory	12GB using 4GB DIMMS@1333MHz
5	Number of Memory Slots	12 DIMM Slots supporting DDR3 Memory
6	Hard Disk	2 Nos of 600 GB 15K RPM,6Gbps SAS 3.5 " Hot Plug Hard Drive
7	No of Hard Disk bays	6 Nos of 2.5 inch HDD
8	RAID Controller	RAID Controller 512MB Cache
9	Optical Drive	DVD-Read Write Drive
10	Ethernet Ports	2 Nos of Gigabit Ethernet Ports
11	I/O Slots	A total of 3 PCI Express Slots with a minimum of 2 Nos of PCI-Express X8 Slots
13	Remote Management	Remote Management with Dedicated Management /Network Interface and option for 8GB Internal Flash storage for storing firmware and utilities and PRE-OS Image thru Partitioning The remote management port should support IPv4, IPv6, VLAN Tagging
14	Systems Management	The systems Management software should have the following Functionality
		Deployment of Multiple Servers from a Single Console
		Monitoring of Servers
		Update of System Software
		Graphical User Interface for local server provisioning in a Pre-OS environment
		Integration with OEM support to update the Server Configurator, Remote Management Controller, RAID Controller, BIOS, NIC, and Power Supply
		Diagnostic tools embedded on the system
		Scripting Capability and support for command line
		Remote Media Access with Virtual Media
		Remote video, keyboard, and mouse control with Virtual Console
		Sensor Monitoring and Alerting
		Real time Power Monitoring
Ability to capture last crash screen		
Power control of the servers		
15	Form Factor	Rack 2U
16	Rack Mount Kit	Sliding Rail
17	Power Supply	Redundant Power Supply
18	Warranty	3 Years On-site Comprehensive warranty from OEM with 4 Hours support
19	Operating System Certification	The system should be certified for
		Citrix Xen Server
		Microsoft Hyper-V
		VMWARE Vshpere 4.1
		RedHat Enterprise Linux
		SUSE Linux Enterprise Server
		Microsoft 2008 R2 X64

DOMAIN Server -1 Units (DELL) in Head Office		
S.No	Parameter	Specification
1	Processor	Intel(R) Xeon(R) Processor X5650 2.66GHz, 12MB cache, 6.4 GT/s QPI, Turbo, HT, 6C
2	No of Processors	The System has to be supplied with 1 Processors
3	Processor socket	2
4	Chipset	Intel 5500
5	Memory	12GB using 4GB DIMMS@1333MHz
6	Number of Memory Slots	8 DIMM Slots supporting DDR3 Memory
7	Hard Disk	2 Nos of 1TB 7.2K RPM SATA 3.5" Hotplug Hard Drive
8	No of Hard Disk bays	4 os of inch HDD
9	RAID Controller	RAID Controller with 512MB cache
10	Optical Drive	DVD-Read Write Drive
11	Ethernet Ports	2 Nos of Gigabit Ethernet Ports
12	I/O Slots	1 PCIe G2 slot + 1 storage slot
13	Remote Management	Remote Management with Dedicated Management /Network Interface and option for 8GB Flash storage for storing firmware and utilities and PRE-OS Image thru Partitioning The remote management port should support IPv4, IPv6, VLAN Tagging
14	Systems Management	The systems Management software should have the following Functionality Deployment of Multiple Servers from a Single Console Monitoring of Servers Update of System Software Graphical User Interface for local server provisioning in a Pre-OS environment Integration with OEM support to update the Server Configurator, Remote Management Controller, RAID Controller, BIOS, NIC, and Power Supply Diagnostic tools embedded on the system Scripting Capability and support for command line Remote Media Access with Virtual Media Remote video, keyboard, and mouse control with Virtual Console Sensor Monitoring and Alerting Real time Power Monitoring Ability to capture last crash screen Power control of the servers
15	Form Factor	Rack 1U
16	Rack Mount Kit	Rail kit
17	Power Supply	Redundant Power Supply
18	Warranty	3 Years On-site Comprehensive warranty from OEM with 4 Hours support
19	Operating System Certification	The system should be certified for Citrix Xen Server Microsoft Hyper-V VMWARE Vshpere 4.1 RedHat Enterprise Linux SUSE Linux Enterprise Server Microsoft 2008 R2 X64

FTP SERVER -1 Units (DELL) in Head Office		
S.No	Parameter	Specification
1	Processor	Intel(R) Xeon(R) Processor X5650 2.66GHz, 12MB cache, 6.4 GT/s QPI, Turbo, HT, 6C
2	No of Processors	The System has to be supplied with 1 Processors
3	Processor socket	2
4	Chipset	Intel 5500
5	Memory	12GB using 4GB DIMMS@1333MHz
6	Number of Memory Slots	8 DIMM Slots supporting DDR3 Memory
7	Hard Disk	3 Nos of 1TB 7.2K RPM SATA 3.5" Hotplug Hard Drive
8	No of Hard Disk bays	4 os of inch HDD
9	RAID Controller	RAID Controller with 512MB cache
10	Optical Drive	DVD-Read Write Drive
11	Ethernet Ports	2 Nos of Gigabit Ethernet Ports
12	I/O Slots	1 PCIe G2 slot + 1 storage slot
13	Remote Management	Remote Management with Dedicated Management /Network Interface and option for 8GB Flash storage for storing firmware and utilities and PRE-OS Image thru Partitioning The remote management port should support IPv4, IPv6, VLAN Tagging
14	Systems Management	The systems Management software should have the following Functionality
		Deployment of Multiple Servers from a Single Console
		Monitoring of Servers
		Update of System Software
		Graphical User Interface for local server provisioning in a Pre-OS environment
		Integration with OEM support to update the Server Configurator, Remote Management Controller, RAID Controller, BIOS, NIC, and Power Supply
		Diagnostic tools embedded on the system
		Scripting Capability and support for command line
		Remote Media Access with Virtual Media
		Remote video, keyboard, and mouse control with Virtual Console
		Sensor Monitoring and Alerting
		Real time Power Monitoring
Ability to capture last crash screen		
Power control of the servers		
15	Form Factor	Rack 1U
16	Rack Mount Kit	Rail kit
17	Power Supply	Redundant Power Supply
18	Warranty	3 Years On-site Comprehensive warranty from OEM with 4 Hours support
19	Operating System Certification	The system should be certified for
		Citrix Xen Server
		Microsoft Hyper-V
		VMWARE Vshpere 4.1
		RedHat Enterprise Linux
		SUSE Linux Enterprise Server
Microsoft 2008 R2 X64		

**Database Server for Regional offices (DELL) – 9 Units in
Regional Office / Head Office (All Over Kerala)**

S.No	Parameter	Specification
1	Processor	Dual Intel- Xeon- E5606 (2.13GHz/4-core/8MB/80W) / 8MB (1 x 8MB) Level 3 cache
2	No of Processors	The System has to be supplied with 1 Processors
	Processor socket	2
3	Chipset	Intel® 5500 chipset
4	Memory	12GB
5	Number of Memory Slots	8 DIMM Slots supporting DDR3 Memory
6	Hard Disk	3 Nos of 600GB 15K or 10 k RPM,6Gbps SAS 3.5 " Hot Plug Hard Drive
7	No of Hard Disk bays	6 Nos of 2.5 inch HDD
8	RAID Controller	RAID Controller 512MB Cache
9	Optical Drive	DVD-Read Write Drive
10	Ethernet Ports	2 Nos of Gigabit Ethernet Ports
11	I/O Slots	A total of 5 PCIe G2 slots: Slots with a minimum of Four x8 slots
13	Remote Management	Remote Management with Dedicated Management /Network Interface and option for 8GB Internal Flash storage for storing firmware and utilities and PRE-OS Image thru Partitioning
15	Form Factor	Tower only (5U rack via 3rd party tray)
17	Power Supply	Redundant Power Supply
18	Warranty	3 Years On-site Comprehensive warranty from OEM with 4 Hours support
19	Operating System Certification	Microsoft® Windows® Small Business Server 2011
		Microsoft® Windows® Small Business Server 2008
		Microsoft® Windows Server® 2008 SP2, x86/x64 (x64 includes Hyper-V®)
		Microsoft® Windows Server® 2008 R2 SP1, x64 (includes Hyper-V v2)
		Novell® SUSE® Linux® Enterprise Server
		Red Hat® Enterprise Linux®

SAN Storage (DELL) – 1 Unit in Head Office		
	Feature	Functionality/Requirement
1	Operating System & Clustering Support	The storage array should support industry-leading Operating System platforms including: <i>Windows Server 2003, 2008</i> , redhat linux Offered Storage Shall support all above operating systems in Clustering.
2	Capacity & Scalability	The Storage Array shall be offered with 4 TB raw capacity using 600GB 15K RPM 6 Gbps SAS Drives . + one additional hot spare drive Storage shall be scalable to minimum of 90 number of drives or > 30TB using SAS drives.
3	Architecture & Processing Power	The storage array should support dual, redundant, hot-pluggable, array controllers for high performance
4	No Single point of Failure	Offered Storage Array shall be configurable in a No Single Point of configuration including Array Controller card, Cache memory, FAN, Power supply etc.
5	Cache	Offered Storage Array shall be given with Minimum of 4GB cache across Dual Controllers.
6	Raid Support	Offered Storage Subsystem shall support Raid 0, 1, 1+0,5 and 6
7	Data Protection	In case of Power failure, Storage array shall be able to hold data in the cache for at-least 72 hours of time or should de-stage to disk or non-volatile media ensuring data protection in the event of an extended power failure. Bidders shall ensure that in case of de-staging, dual redundant Standby power supplies are configured.
8	Host Ports & Back-end Ports	Offered Storage shall have minimum of 8 host ports of 8Gbps for connectivity to servers & minimum of 2 device ports for Disk shelf connectivity across controllers
		Offered storage shall have 8 Gbps Fiber connectivity for the hosts and 6 Gbps SAS connectivity to the disks and disk enclosures
9	Global Hot Spare	At least One Global hot spare drive shall be configured for every 20 drives.
		For the current RAID configuration 1 Nos of SAS 600GB shall be considered for hot spare
10	Maintenance	Offered storage shall support online non-disruptive firmware upgrade for both Controller and disk drives. Should also support Data-in-place upgrade.
11	Storage Array Configuration & Management Software	Vendor shall provide Storage Array configuration and Management software.
		Software shall be able to manage more than one array of same family.
		Should support Dynamic Capacity Management/LUN shrinking
		The storage array should support Storage Virtualization which should enable capabilities such as transparent reconfiguration of physical storage and expansion of capacity without disrupting host.
12	Snapshot & Clones	Vendor shall also offer the snapshot and volume clone software for Storage Array.
13	Remote Replication	Storage shall support both Synchronous and Asynchronous replication at controller level.
		Shall support replication across all models of the offered family.
14	Warranty	3 Years 24*7 Comprehensive

Tape Library (DELL) – One unit in Head Office

	Feature	Minimum Requirement
1	Capacity and scalability	Shall be configured with a single LTO5 tape drive, with 6Gbps SAS interface
		Shall have at least 8 slots and option for upgrade to 16 slots with maximum capacity up to 24TB
		The offered Tape Library not to exceed 2RU rack space.
2	Speed	Offered LTO 5 drive shall support 140 MB/sec in native mode
3	Connectivity	Shall provide 6 Gbps native SAS connectivity to Rack backup server
4	Management	Shall provide web based remote management; Password Protected Remote Management
5	Barcode reader and mail slots	Tape library shall support barcode reader and mail slot
6	Other features	Mean cartridge load time 30 sec
		Mean Cycles Between Failure Greater than 100,000
		Removable Magazines
		Automated
7	Back up software support	Symantec Backup Exec;Arcserve;CommVault
8	Operating System Support	Linux and Windows
9	Warranty	3 Years 24*7 Comprehensive



CONSUMERFED

**Database Server for Regional offices (HP) – 6 Nos in
Regional Office / Head Office (All Over Kerala)**

S.No	Parameter	Specification
1	Processor	Intel® Xeon® CPU E31220 @3.10GHZ
2	No of Processors	The System has to be supplied with 1 Processors
	Processor socket	2
3	Chipset	Intel® 5500 chipset
4	Maximum processor speed	3.50 GHz
5	Processor cores	Quad-core, Dual-core
6	Memory	12GB
7	Number of Memory Slots	PC3-10600E Unbuffered DDR3 ECC up to 1333 MHz , 4 DIMM slots
8	Storage Type	Non-hot-plug 3.5 in. SAS Non-hot-plug 3.5 in. SATA
9	Hard Disk	3 Nos of 600GB 15K or 10 k RPM,6Gbps SAS 3.5 " Hot Plug Hard Drive
10	No of Hard Disk bays	4 Nos of 3.5 inch HDD
11	RAID Controller	HP Embedded Smart Array B110i SATA RAID Controller (RAID 0/1/10)
12	Optical Drive	DVD-Read Write Drive
13	Ethernet Ports	2 Nos of Gigabit Ethernet Ports
14	I/O Slots	Slot 1: PCIe Gen2, x16 (x16 connector), full height and full length • Slot 2: PCIe Gen2, x4 (x8 connector), full height and full length • Slot 3: PCIe Gen2, x4 (x8 connector), full height and full length • Slot 4: PCIe Gen2, x4 (x1 connector), full height and full length
15	Remote Management	HP Integrated Lights-Out 3 HP SmartStart CD
16	Form Factor	Tower only
17	Power Supply	Standard 350 W non-hot-plug, non-redundant power supply (80% efficiency) RPS 460 W (92% efficiency)
18	Warranty	Worldwide, except Brazil: 1-year parts/1-year labor/1-year onsite Brazil only: 3-year parts/1-year labor/1-year onsite
19	Operating System Certification	Microsoft® Windows® Small Business Server 2011
		Microsoft® Windows® Small Business Server 2008
		Microsoft® Windows Server® 2008 SP2, x86/x64 (x64 includes Hyper-V®)
		Microsoft® Windows Server® 2008 R2 SP1, x64 (includes Hyper-V v2)
		Novell® SUSE® Linux® Enterprise Server Red Hat® Enterprise Linux®