

Request for Proposal for Procurement of ERP Hardware

Tender Reference No: ECIL/ITSD/10-4593/R



Electronics Corporation of India Limited

A Govt. of India (Dept. of Atomic Energy) Enterprise

Contents

- 1. Introduction**
- 2. Instructions to the bidders**
- 3. Scope of work**
- 4. Terms and conditions**
- 5. Eligibility criteria**
- 6. Specifications**
- 7. Annexure I**
- 8. Annexure II**
- 9. Annexure III**
- 10. Annexure IV**
- 11. Annexure V**

- 2.5 Compliance: The bidder shall submit along with the technical bid clause by clause compliance of the tender document.
- 2.6 This bidding process is open to only OEMs or OEM authorized partner of servers and storage.
- 2.7 OEM has to nominate one partner with deep technical skills & hands on experience on enterprise systems and having eligibility criteria as per clause 5. Eligibility Criteria for OEM Authorized Partner.
- 2.8 OEM authorized partners with authorization letter from OEM specific to this RFP are only eligible to quote.
- 2.9 Maximum of one bid is allowed for each OEM of the Server, either directly OR through OEM's Authorized Partner. There can be only one bid from each bidder.
- 2.10 ECIL SAP System Integrator (Solution Implementer) and their group are not eligible to quote.
- 2.11 OEM and his authorized partner both are responsible for completion of Scope of work. OEM technical team presence is expected during installation and configuration where ever required. Final responsibility lies with OEM, undertaking to this effect in the format enclosed as Annexure III.
- 2.12 The servers, storage, SAN switches and shall be the latest generation in their class released by the OEM. All components offered should be thoroughly tested and rated for 24x7x365 operations.
- 2.13 The OEM must provide an undertaking that the hardware offered will be compatible with VMware vSphere 5 & above and RHEL 6 & above in Annexure III.
- 2.14 The OEM must undertake the complete responsibility of supply and commissioning of the hardware, software and other equipment, i.e. the entire scope of this tender. Undertaking letter on OEM letter head to be submitted.
- 2.15 The bidder shall supply and install all cables, adapters, power cords and any other interconnects required by the systems to meet the specifications, to make the system operational. The bidder shall carry out all electrical and systems interfacing pertaining to equipment as per the best international standards and practices.
- 2.16 All hardware supplied shall be NEW and should not contain refurbished items. Undertaking to this effect in the format enclosed as Annexure III on OEM Letter head should be provided.
- 2.17 All the Items must be supplied in full and complete.
- 2.18 No item shall be offered whose end-of-sale has been declared by the OEM or has been declared to be under phase out.
- 2.19 ECIL will not be responsible for any misinterpretation or wrong assumption by the vendor
- 2.20 The bidder shall provide all other hardware and software items that are not explicitly mentioned herein, but are required by the bidder to full-fill the intended specifications, to make the system operational and to meet the functionality mentioned in the bid.
- 2.21 All required software to be provided as part of the solution should be licensed to "Electronics Corporation of India Limited". The license shall include all future patches and upgrades required to maintain the software during the lifetime of the equipment. The license shall not be partial or limited in any respect.

- 2.22 ECIL reserves the right to verify / confirm all original documentary evidence submitted by vendors in support of the eligibility criteria. Upon verification, evaluation / assessment, if any information furnished by the bidder is found to be false / incorrect, their total bid will be liable to be rejected and no correspondence on the same shall be entertained.
- 2.23 Literature: The bidder shall furnish technical literature, Catalogues explaining the technical features and parameters of the products quoted.
- 2.24 ECIL reserves the right to accept or reject any or all tenders without assigning any reason what so ever.
- 2.25 Prices should be firm till successful completion of the assigned job and no escalation of any nature is acceptable except statutory taxes and duties, as applicable. The bidder shall submit detailed time schedule for the completion of the assignment along with the Technical Bid.
- 2.26 The time schedule shall be strictly adhered to. Any failure on the part of the bidder, LD will be imposed.
- 2.27 OEM Authorization letter: Bidder should submit Authorization letter from OEM for bidding, supply and full support during installation and warranty period.
- 2.28 On award of the contract if the bidder fails to deliver and complete the work within the time prescribed in the contract, ECIL reserves the right to get the job done through other suppliers at the bidders cost and recover the additional amount the corporation has spent in procuring the material plus 10% towards the incidentals plus forfeiting security deposit.

2.29 TECHNICAL BID CHECK LIST:

- 2.29.1 Authorization letter from OEM specific to this RFP
- 2.29.2 Technical specification compliance with necessary document references / remarks
- 2.29.3 Unpriced BOM as per table 1 of Annexure IV for each submodule with Part numbers
- 2.29.4 Unpriced bid with taxes as per table 2 of Annexure IV
- 2.29.5 Power and cooling requirements item wise and consolidated.
- 2.29.6 No deviation certificate as per Annexure-I or Deviations statement as per Annexure-II.
- 2.29.7 OEM undertaking as per Annexure-III
- 2.29.8 Earnest Money Deposit (EMD) of Rs. 10 lakhs
- 2.29.9 Company Balance sheet and profit and loss account for last 3 years
- 2.29.10 Company Income Tax Statement for last 3 years (IT returns should be enclosed)
- 2.29.11 PAN no. and TIN no.
- 2.29.12 Copy of bill of quantity as given in the price bid (prices masked)
- 2.29.13 Copy of Terms and Conditions as given Price Bid
- 2.29.14 Clause by Clause Compliance of the tender document (specifications & general terms, conditions & compliance)
- 2.29.15 Technical Literature, catalogues of Bill of Material
- 2.29.16 Authorized signatory signature on all papers

2.30 COMMERCIAL BID CHECK LIST:

- 2.30.1 Cost breakup of clearly definable modules like CPU, RAM, Disk, PCIe add-on cards, licenses etc. with their respective OEM part number in Item wise Price Format for Items mentioned in Cumulative Price Format in table 1 of Annexure IV
- 2.30.2 Price Bid as per Cumulative Price Format in table 2 of Annexure IV.

3. Scope of Work:

The scope of this project covers Supply, Installation, and Commissioning of

- | | |
|--------------------------------------|------------|
| A. Enterprise x86 Servers | --- 3 Nos. |
| B. SAN storages | ---1 Nos. |
| C. SAN Switches | ---2 Nos. |
| D. 42 U rack with KVM console & PDUs | ---1 Set |

3.1 Supply of Materials as per Purchase Order

3.2 Installation of Servers, Storage and SAN switches including firmware upgrade and updates, Running Diagnostics to ensure proper functioning of all sub modules.

3.3 Integration and configuration of SAN switches and storages.

3.4 Creating Zones, volumes and mapping to virtual machines as per ECIL requirements, will be done along with ECIL team at the time of Operating System installation.

3.5 Detailed scope of work will be finalized with the winning OEM/bidder.

4. Terms and Conditions:

4.1 Payment Terms

- a) 80% of supply of the complete material and 100% taxes and duties with 60 days credit from the date of delivery, inspection and acceptance by ECIL technical team and on producing the following documents.

- I) Invoice
- II) Inspection report.
- III) Proof of receipt of the equipment

- b) 20% of the supply of the material within 30 days from the date of commissioning and acceptance subject to (i) successful Installation & Commissioning as per Purchase Order (ii) furnishing Warranty Bank Guarantee.

4.2 **BID VALIDITY:** 90 DAYS from the date of opening of bids.

4.3 **DELIVERY:** The material is to be delivered to ECIL, Hyderabad within 6 weeks from the date of issue of Purchase Order.

4.4 **PLACE OF DELIVERY:** ECIL, Hyderabad.

4.5 GENERAL TERMS, CONDITIONS & COMPLIANCES

S.No	Required Compliance	Complied (Yes/No)
1	General Terms	
1.1	Bidders have to submit their Bids as Two-Part Bid: Part 1. Techno Commercial bid with EMD Part 2. Price Bid in two separate sealed covers super scribing the tender no. on the Covers as follows:	

S.No	Required Compliance	Complied (Yes/No)
1.2	Techno Commercial & Price Bids are to be submitted simultaneously in two separate covers and sealed, super scribed as "TECHNO COMMERCIAL BID" and 'PRICE BID" on respective covers with RFQ No., Date and Due Date.	
1.3	Both the sealed covers are to be kept in a separate cover and sealed again, super scribing with RFQ No., Date & Due Date. Bids not super scribed as above will be summarily rejected.	
1.4	Bids will not be considered if received late due to postal/courier delays. Bids should reach ECIL on or before the due date and time. Email/Fax bids will not be considered. Bids received after the due date and time will not be considered.	
1.5	Request for extension of due date will not be considered. However, ECIL at its sole discretion may extend due date and notify through ECIL website: www.ecil.co.in only.	
1.6	Bids not submitted as Two-part will be rejected summarily. If price indications are made in Techno-commercial Bid, such Bids will be rejected summarily.	
1.7	Price bids of 'Techno commercially qualified bidders only will be opened	
1.8	During technical evaluation, Bidder shall visit ECIL, Hyderabad for techno-commercial discussions, which will be informed in advance.	
1.9	Bidder should provide details of contact person with Mobile / Telephone Number and email ID.	
1.10	Bidder shall confirm in the Techno-Commercial Bid that each and every term and condition mentioned in the RFQ is understood and accepted unqualifiedly. Deviations if any, found subsequently at any time during execution of order shall be treated null and void.	
1.11	ECIL reserves the right to accept the bids in full or in part or cancel the RFQ in it's entirety, at its sole discretion, without assigning any reasons.	
1.12	Bidder should sign and affix the seal on all pages of the Bid.	
1.13	Bidders should enclose copies of Tax Registration and PAN and indicate with supporting documents.	
1.14	In case of clarifications, please contact: DGM(Purchase) ITSD, IT&TG, ELECTRONICS CORPORATION OF INDIA LIMITED , ECIL P.O Hyderabad -500062 , Ph: 040-27182415,27121897(fax), Email: cmgpur@ecil.co.in	
1.15	BIDS SHOULD BE ADDRESSED TO Deputy General Manager (Purchase), ITSD, IT&TG, ELECTRONICS CORPORATION OF INDIA LIMITED, ECIL P.O., HYDERABAD – 500062.	
1.16	Pre-bid meeting will be held in the office of the Deputy General Manager (Purchase), ITSD, IT&TG building, ELECTRONICS CORPORATION OF INDIA LIMITED, ECIL P.O., HYDERABAD – 500062. On 6-4-2015 at morning 10 AM	
2	TECHNO-COMMERCIAL BID	
2.1	Scope of work is as per chapter 3 'SCOPE OF WORK'	
2.2	Bidder shall confirm that the scope is understood and accepted. Deviations, if any, shall be indicated, against each line entry.	
2.3	Bidder should quote for all the line entries of RFQ. The supplies shall include all the necessary technical manuals and other documents at free of cost.	
2.4	Work shall be carried out as per instructions and in coordination with ECIL.	
2.5	Quantities indicated are tentative and may vary based on requirements. .	
3	Validity of Bid	
	Bids shall be valid for a minimum period of 90 days from the date of bid.	

S.No	Required Compliance	Complied (Yes/No)
4	Earnest Money Deposit (EMD)	
4.1	Techno-commercial Bid shall accompany interest-free EMD for Rs. 10 lakhs (Rupees ten lakhs only) <i>in the form of Demand Draft, drawn on any nationalized bank in favor of 'Electronics Corporation of India Limited' and payable at Hyderabad (or) in the form a Bank Guarantee, on a nationalized Bank, valid for 90 days as per format in Annexure V from the date of the Bid.</i>	
4.2	EMD will be refunded to the un-successful Bidder with in 2 weeks from the date of finalization of order.	
4.3	EMD will be refunded to successful Bidder with in 10 days of receipt of Security Deposit.	
4.4	As part of Techno Commercial Bid, Bidder shall furnish name of the Bank, Branch, Type of Account and Account No. for refund of EMD.	
4.5	If the successful Bidder fails to furnish Security Deposit as per Purchase Order terms with in the stipulated period, Purchase order will be cancelled in addition to invoking Risk Purchase Clause.	
4.6	If the Bidder revokes, withdraws and modifies the Bid after the due date and with in the validity period of the Bid, EMD will be forfeited in favor of ECIL.	
4.7	Bids are liable for rejection, in the event of non-furnishing of EMD.	
4.8	Bidder should enclose copies of contracts successfully executed previously along with corresponding successful completion certificates as per eligibility criteria 5.3	
5	Completion Schedule:	
	Time is the essence of the proposed work. Bidder shall submit progress report on daily basis. Bidder shall confirm completion of Installation & commissioning. Delay in execution of work is not acceptable. This condition on schedule is mandatory and Bids not confirming this condition will be rejected.	
6	Prices:	
6.1	Bidder has to submit the offer indicating clearly Basic price as part of price bid. Prices and Taxes shall be indicated in the price bid.	
6.2	Prices should be indicated both in figures and words. In case of disagreement, the prices given in words will only considered for the purpose of evaluation.	
6.3	Prices shall be quoted on Free Delivery and shall indicate all charges like packing, forwarding freight, transit insurance and unloading etc. No deviation shall be allowed other than this term.	
6.4	Price schedule, as per BOM, without prices, but indicating applicable taxes and tax rates, should be enclosed to Techno-commercial Bid.	
6.5	Prices shall remain firm till execution of the order/contract, under all the circumstances.	
7	Security Deposit:	
7.1	Successful Bidder should furnish Security Deposit in the form of Demand Draft/ Bank Guarantee for an amount equal to 10% of basic value of Purchase Order, favoring 'Electronics Corporation of India Limited', drawn on any Nationalized Bank and payable at Hyderabad valid for 6 months with additional claim period of 60 days, within 10 days from the date of award of Purchase Order in the format given in Annexure V. Security Deposit shall be returned after satisfactory execution of total order.	
7.2	If the Security Deposit is furnished through Bank Guarantee, the same shall be extended from time to time to cover the discharge of intended obligation.	
7.3	The same BG shall be extended to cover three (3) years warranty period from the date of I&C certificate or a new BG can also be submitted to cover the three (3) years warranty period from the date of I & C certificate.	

S.No	Required Compliance	Complied (Yes/No)
8	Inspection:	
8.1	The supplier has to co-ordinate for Quality Acceptance (QA) to be carried out at ECIL for the supplied items.	
8.2	ECIL will inspect the computers during progress and also after completion of total work. The decision of ECIL on acceptance of computers shall be final and binding on the bidder.	
9	Terms of Payment:	
9.1	80% of Bill will be paid within 60 days from the date of receipt and acceptance. Balance 20% will be paid within 30 days subject to (i) successful Installation & Commissioning as per Purchase Order (ii) furnishing Warranty Bank Guarantee as per Annexure V format for 10% of Purchase Order value.	
9.2	No advance payments will be made.	
9.3	ECIL shall not be held responsible for delay in payment due to Bidder's delay in submitting the documents as per terms of PO.	
10	Dispatch documentation:	
	Invoice should be made in favor of ECIL. Original should be submitted to ECIL.	
11	Liquidated Damages (LD):	
	As it is a turnkey project LD will be levied and recovered @ 0.5% per week of delay or part there of subject to a maximum of 5% of the total order value if the Bidder fails to supply as per mutually agreed delivery schedule.	
12	Risk Purchase:	
	In the event of successful Bidder's failure to supply the materials/carryout services as per ordered terms and conditions or based on review of progress at site, if the progress is not satisfactory, ECIL reserves the right to cancel the purchase order and source the same from alternate sources, in which event, the Bidder will be liable to bear all extra cost/costs, whatsoever, which may be incurred by ECIL for alternate arrangement.	
13	Installation & Commissioning:	
	Installation and commissioning as per scope of work and detailed scope of work mentioned in chapter 3 has to be completed in 4 weeks.	
14	Warranty:	
14.1	Supplied materials and workmanship shall carry a warranty of three (3) years from the date of completion of Installation & Commissioning. The warranty shall include free replacement of the faulty parts or equipment and defective one can be taken. During the warranty period, Bidder shall attend to all rework, replacements to restore the system to working condition.	
14.2	Bidder should undertake to furnish Warranty Certificate.	
15	Additional Quantities:	
	Prices and all terms shall remain firm and valid for additional 100% quantities for a period of 6 months from the date of award of contract on this tender. ECIL shall have right to negotiate for reduction of the prices.	
16	Negotiations:	
	Bidders should quote competitive prices considering the fact that price negotiations, if required, will be held only with the techno-commercially qualified lowest Bidder.	
17	Assignment:	
	Bidder shall not assign any obligations of the purchase order, if awarded, either in whole or in part.	
18	ECIL shall have right to extend the due date of submission or cancel this RFQ without assigning any reason or accept the items partially.	

5. Eligibility Criteria for OEM Authorized Partner:

- 5.1 Must be an Authorized partner of the OEM for the products quoted for a minimum of 24 months. Submit certificate from the OEM to this effect.
- 5.2 Bidder should be an established company registered with the government. Certificate copy to be enclosed.
- 5.3 Bidder should have a valid Sales tax / Service tax registration number. Certificate copy to be enclosed.
- 5.4 Must have annual turnover of minimum Rs.15.00 crores per annum for the last 3 years. Attested copies of Balance Sheets of the last three years to be submitted as proof.
- 5.5 Must have registered office in India. Documentary proof shall be submitted

6. Technical Specifications:

Enterprise x86 Servers (Configuration of each server)

#	Item or Parameter	Specification	Qty	Compliance Yes/No
1	Form factor	4U rack.		
2	Processor	Intel Xeon Processor E7-4890 v2, 2.80 GHz, 64 KB L1 cache and 256 KB L2 cache per core, 37.5 MB L3 cache per processor	4	
3	Chipset	Intel C602J Chipset compatible to Intel Xeon Processor E7-4890 v2		
4	Memory	16GB (1x16GB, 2Rx4) PC3L-12800 ECC DDR3 1600MHz RDIMM	64	
5	Memory protection	Double Data Device Correction, memory mirroring, memory sparing and ECC/Single data device correction/Chipkill/RBS/SDDC/Quarantine.		
6	Disk drive bays	Minimum eight 2.5-inch hot-swap/hot-plug SAS bays		
7	Disk drives	1.2TB 10K 6Gbps SAS 2.5" hot-swap/hot-plug HDD	8	
8	SSD Drives	Enterprise SAS SSD 400GB	2	
9	RAID Controllers	12 Gb SAS RAID 0, 1, 5,10,50 with 2 GB flash-backed cache	2	
10	Network adapters	Gigabit Ethernet 1000BASE-T Quad Port Server Adapter	4	
		Dual Port 10GbaseT Server Adapter	2	
11	Storage host bus adapters	QLogic 16Gb FC Dual-port HBA	4	
12	Power supplies	Redundant hot-swap/hot-plug minimum 1100 W AC power supplies of Platinum certified.	4	
13	PCI Expansion slots	9 PCIe 3.0 full-height slots		
14	hot-swap/hot-plug parts	Drives, power supplies and fans		
15	Minimum default Ports	4 USB 2.0 ports, 2 Video ports and 1000-T management port.		

#	Item or Parameter	Specification	Qty	Compliance Yes/No
16	Security features	Power-on password, Admin password, and Trusted Platform Modules (TPMs).		
17	Cooling	Fully populated redundant hot-swap/hot-plug fans as per the OEM design		
18	Systems management	Engine/Service-processor control, monitoring, and an alerting function. Virtual presence capability for remote server management capabilities. Intelligent Platform Management Interface I (IPMI) Version 2.0 or equivalent. Simple Network Management Protocol (SNMP) 3.0. Bios, firmware and drivers update. Alerts, Health, Performance and Power monitoring.		
19	Remote presence	Remotely accessing the server by using the keyboard and mouse from a remote client. Dedicated port for remote management. Mapping the CD or DVD drive or diskette drive or USB flash drive on a remote client, and mapping ISO and diskette image files as virtual drives that are available for use by the server.		
20	Operating systems supported	VMware vSphere 5.5 (ESXi), VMware vSphere 5.1 (ESXi), Microsoft Windows Server 2012 R2, Microsoft Windows Server 2012, Microsoft Windows Server 2008 R2, Red Hat Enterprise Linux 6.5 Server x64 Edition, SUSE Linux Enterprise Server 11 for 64 bit		
21	Warranty	Three years onsite warranty with 24x7x4 hour terms		
22	SAP bench marks	Each server should give at least 1,30,000 SAPs and should have SAP SD 2-tier published benchmark. Attach signed certificate of SAP Standard Application benchmark. SAP ECC 6.0 Unicode EHP5 Sales & Distribution SD 2 Tier SAPS Benchmark for the offered server from SAP website, public domain (http://sap.com/benchmark) will be taken for evaluation.		
23	VMware compatibility	All sub-systems and integrated system with all above modules should be VMware certified as per their Hardware Compatibility List. Attach OEM certificate with supportive documents from VMware HCL.		

SAN Storage (Configuration of each storage)

#	Component	Specifications	Compliance YES/NO
1	SAN Storage Model	Storage must feature Fiber Channel architecture. It should not be a SAN emulated on File System. The architecture should allow modular upgrades of hardware and software for investment protection. The storage system shall be the latest in their class released by the OEM	

#	Component	Specifications	Compliance YES/NO
2	Spindle Flexibility	The array should support the following spindles: 300GB, 600GB, 900, 1.2TB or above of 10K/ 15K RPM SAS 1TB, 2TB, 3TB & 4TB 7K RPM NL SAS. It should support SLC/ MLC / eMLC SSD drives. Mix and match of different type of spindles should be supported behind the same pair of controllers.	
3	Array Architecture	<p>The array should be equipped with N+N (with minimum of 2 array controllers) Nos. of array controllers for better performance redundancy.</p> <p>The storage system should be provided with 96GB Cache Memory (48GB per controller) scalable to 128 GB (only RAM DIMMs will be accepted as cache memory)</p> <p>The storage system should support minimum 12x front-end ports (Mix of FC-8 & 16Gbps, iSCSI-1& 10Gbps FCoE-10Gbps) without performing any controller upgrades</p> <p>The storage system should have native support for 1Gb / 10Gb iSCSI & 10Gb FCoE front-end ports.</p> <p>The Storage should be configured with 4 * 16Gbps FC Front end Host Ports and sufficient number of backend port as per OEM design with at least 4 * 6Gbps SAS Backend Ports should be provided.</p> <p>The SAN must support synchronous, asynchronous replication. Further, the replication must be bi-directional to support multiple replication options.</p>	
4	Array Features (If any of the features mentioned requires license the same should be included as part of the BOM)	<p>Intelligently restripe data as disks are added to optimize performance.</p> <p>The Storage to include licenses for Snapshots, Virtual disk copy, Thin Provisioning and Auto Tiering.</p> <p>The SAN must allow RAID levels to be changed on the fly without taking down the server to which the volume is attached.</p> <p>The SAN must allow any LUN provided to a system configured with both types of server connectivity (fiber channel or iSCSI) and must be capable of mapping volumes from one connectivity type to the other without changing or copying the data.</p> <p>The Storage System should have the capability to support Non-Disruptive Data migration across Volumes</p> <p>The snapshot Feature needs to support at least 255 snapshot copies per volume, and a total of at least 4000 snapshot mappings.</p>	
5	Additional Advanced Software Features Supported	<p>The Storage System shall support Synchronous & Asynchronous Replication for DR Strategy. The replication service can be implemented using either FC or IP Protocol</p> <p>Should allow for encryption of data.</p>	
6	Storage capacity	The Storage Array shall be offered with 8TB binary useable capacity on 400GB Enterprise SSD or higher disks on RAID5 20TB binary useable capacity on 900GB 10K RPM drives on RAID 5 and 12 TB useable capacity on 2TB 7.2K RPM NL SAS drives on RAID 6.	
7	Storage scalability	The array should be scalable to a minimum of 500 disks of the offered configuration of the disk count behind the same controller pair by adding the appropriate number of spindles and disk shelves	

#	Component	Specifications	Compliance YES/NO
8	Number of LUNS and Hosts	The array should allow scalability to 2048 LUNS and 256 hosts behind the controller pair.	
9	Cache Protection	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.	
10	No single point of failure Architecture	Storage Array should be configured in a No-Single-Point-of-Failure Architecture.	
11	OS Support	Industry leading Operating System platforms including: Windows Server® 2008/ 2012, Sun Solaris®, HP-UX®, IBM-AIX®, Linux® 2.6 and above, RHEL-6.5, VMware®, Hyper-V®.	
12	Global Hot Spares	At least one Hot spare drive for every fifteen drives of same capacity and type of drive. System should have capability to designate multiple global hot spares that can automatically be used to replace a failed drive anywhere in the system.	
13	RAID level support	Storage system to support HARDWARE based RAID only. Must support various Hardware RAID levels such as 0, 10, 5 and 6 (Dual Parity Protection). Must support inter-mixing different RAID groups within one storage system. Different type of RAID levels should co-exist within the same array simultaneously to match different protection requirements of data.	
14	Online RAID Group expansion	Must support online expansion of RAID Group. Must be able to add additional disks on the fly to expand the RAID group capacity.	
15	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	
16	Data-in-place upgrade	Must support data-in-place upgrade of existing storage controllers to a future generation controller.	
17	Array Management	Entire system must be manageable from a web-based single, secure interface without requirements for a separate management device or server.	
		Management system must include comprehensive online and remote monitoring abilities without third party hardware or software.	
		At-a-glance, comparable views of current aggregate capacity statistics and overall storage resource objects for all SANs of same series from the vendor	

#	Component	Specifications	Compliance YES/NO
18	Controller software and Non-Disruptive Upgrade	Firmware should be upgradeable for functionality improvement and enhancements. Must support non-disruptive upgrade of core software, BIOS, snapshot, clone, remote mirroring and management software without shutting down the storage system. All host-attached servers must remain fully operational during system level or maintenance upgrade procedures.	
19	Management	Data must be automatically moved in a Bi-Directional manner in all the tiers available	
		Software must be able to be managed within a single pane of glass	
		Should offer real time performance monitoring tools giving information on CPU utilization, volume throughput, I/O rate and latency	
20	Built in Redundancy	The system shall support Fully Redundant & Hot Swappable Fans & Power Supplies. There shall be support for Non-Disruptive Microcode Update & Non-Disruptive Parts Replacement	
21	AC Power	200-240VAC, 50Hz Power and cooling statistics for the Storage Array to be mentioned.	
22	Rack Mountable	The proposed system must be mounted on a standard 19 inch rack	
23	Warranty	3 Years On-site 24X7 comprehensive warranty	

SAN switch

(Configuration of each switch)

#	Item or Parameter	Specification	Compliance Yes/No
1	SAN Switch	All Fiber Channel SAN Switches should be of the same make and model	
		The switch should have No Single point of failure (NSPoF)	
		The Switch shall be guaranteed to be fully compatible for HBAs, Clustering Solution and OS offered with the servers and the SAN storage.	
		All software, licenses required shall be supplied, Specify the software	
		While providing the technical response, the Bidder must clearly specify Make, Model No of ports	
		The offered SAN Switches shall be of Brocade / Cisco make only	
2	Ports	The SAN switches quoted should support 24 numbers of 16 Gbps FC ports with all 24 numbers of 16 Gbps FC Activated Ports.	
		Fiber channel ports shall be 16/8 auto sensing full duplex.	
		All the ports should operate at min 16Gbps in a non-blocking architecture and auto-negotiate to 16 Gb/8Gb FC speeds	
3	SFPs/ transceivers	All 24 ports should be populated with Short wave SFPs/ Transceivers.	
4	PSU/FANS	The switches should have redundant Power Supplies and fan units	

5	Management	Switch management software shall be provided for device management Specify the software.	
		Should support web based management and also CLI (Command Level Interface) based management.	
		Should have proactive fault detection and alerts	
6	Form Factor	The switch should be rack mountable.	

42U Rack

#	Item or Parameter	Description	Qty	Compliance (Yes/No)
1	Cabinet	42U, 19" Standard Enterprise Rack Cabinet of Server OEM or Schneider make	1	
2	PDU	24 C13 Enterprise PDU 0U	4	
3	KVM /KMM Console	1U 17in Flat Panel Monitor Console with Keyboard and Integrated pointing device having USB connectivity of Server OEM	1	
4	Console cables	CAT5 integrated KVM connectivity cables with USB	12	
5	KVM /KMM Console Switch	16 Port USB KVM console Switch of server OEM	1	

Annexure I

No Deviation Certificate

(To be submitted on the Letterhead of the bidder)

Ref: Tender Reference No: **ECIL/ITSD/ 10-4593/R** Dated: 01-04-2015

It is Certified that the offered solution vide Bid No. _____
Dated _____ in response to ECIL Tender mentioned under reference has no
Technical deviation with the requirement of ECIL, Hyderabad given vide the Technical
Specification (Requirement).

Date:

Vendors Signature with seal

Annexure II

Deviation Statement

(To be submitted on the Letterhead of the bidder)

[Date]

To

Electronics Corporation of India Limited,

(GOVT. OF INDIA ENTERPRISE,)

ECIL post,

Hyderabad 500062.

Sub: Deviation Statement

We confirm that the following are the only deviations to the requirements described in your Tender Document Numberdatedand as responded in our proposal / bid Number dated Except for these deviations, we confirm to accept all the other requirements of the said tender document.

S. No.	Page # bid Document	Document Reference	Subject	Deviation

We declare that any other deviations noted in other places in the bid documents / correspondences shall be ignored and construed as our unconditional acceptance of the respective tender terms.

The deviation(s) listed above shall be reviewed by ECIL technical committee and decision for consideration lies solely with ECIL. The decision is final.

Thanking you,
Yours faithfully

Dated _____ this day of, 2015. _____ [signature]

In the capacity of _____ [position]

Duly authorized to sign this bid for and on behalf of _____

[Name of bidder]

Notes:

1. This form has to be signed by authorized signatory.
2. Please use separate sheets in case the deviation that cannot be adequately described in the table above clearly mentioning the reasons).
3. The Bidders must comply with all requirements of this Tender Document. However, where the Bidder is unable to comply with specific requirements listed out in this document, they must specifically indicate these in the format given above. Anything contained in this Tender Document, which has not been specifically excluded, or for which deviations have not been indicated, will be regarded as being agreed to by the Bidder.

Annexure III OEM Undertaking

(To be submitted on the Letterhead of the OEM)

(Place)

(Date)

To

Electronics Corporation of India Limited,

(GOVT. OF INDIA ENTERPRISE,)

ECIL post,

Hyderabad -500062.

We would like to declare/confirm the following information on our offered solution:

1. Hardware offered will be compatible with VMware vSphere 5 & above and RHEL 6 & above
2. The supplied hardware does not contain any malware which compromises the security of ECIL data and systems residing in the proposed hardware or any other hardware on ECIL's network.
3. We will carry out Supply, Installation, Configuration, Testing, Commissioning and Support of Servers, SAN Storage, SAN switches at ECIL as per the entire scope of work as stipulated in the bid document.
4. We will interact with the ERP implementer and System integrator for the successful completion of the ERP project.
5. We will provide direct warranty support for all the Equipment supplied for a period of three Years.
6. All hardware supplied is NEW and does not contain any refurbished items.

Dated this ____ day of ____ 2015

Yours faithfully,

Authorized Signatory

Designation

Name of the OEM

Annexure IV

Item wise Price Format for Items mentioned in Cumulative Price Format

S No	Item description	Qty	Base price Per unit	Price for total quantity excluding Taxes	Sales Tax (%)	Service Tax (%)	Other Taxes If any (%)	Price for total quantity Including Taxes
1	Enterprise x86 Servers	3						
2	SAN storages	1						
3	SAN switches	2						
4	42 U rack with KVM console & PDUs	1						
Total Price excluding Taxes					Total Price including Taxes			

Cumulative Price Format

S No	OEM Part #	Item Description	Quantity	Price/unit	Price for total quantity
Total Price(Base Price per unit in Cumulative price format)					

Annexure V

PERFORMANCE GUARANTEE

Ref No.: P.O.NO.ECIL/PUR/_____

BANK GUARANTEE NO: _____ **DATED:** _____

The Dy. General Manager (Purchase)
TCD, IT&TG,
Electronics Corporation of India Limited
ECIL PO,
Hyderabad -500062.

Dear Sirs,

1. In consideration of Electronics Corporation of India Limited,(A Government of India Enterprise), Incorporated under the Companies Act 1956 having its registered Office at ECIL Post, Hyderabad-500062(herein after referred to as "Company" which expression shall mean and include repugnant to the context or meaning thereof includes all its successors, administrators, executors and assigns), having entered into a Contract No: ECIL/PUR/_____dated_____(hereinafter called: "The Contractor" which expression shall include all the amendments thereto) with.(hereinafter referred to as "The Contractor" " which expression shall mean and include, unless repugnant to the context or meaning thereof include all its successors, , administrators, executors and assigns) and Company having agreed that the Contractor shall furnish to Company a performance guarantee for the Indian currency _____=(Rupees _____ only) for the faithful performance of the entire Contract.

2. We_____(Name of the bank), Registered under the laws of INDIA having head/registered office at_____ (hereinafter referred to as "The Bank") which expression shall, unless repugnant to the context or meaning thereof include all its successors, administrators, executors and permitted assigns) do hereby guarantee and undertake to pay immediately on first demand in writing and any/all moneys to the extent of Indian currency _____ (_____ Only) on breach of Contract by Contractor without any demur, reservation, contest or protest and/or without any reference to the Contractor. Any such demand made by Company on the Bank by serving a written notice shall be conclusive and binding, without any proof, on the bank as regards the amount due and payable, notwithstanding any dispute(S) pending before any Court, tribunal, Arbitrator or any other authority and, or any other matter or things whatsoever, as liability under these presents being absolute and unequivocal. This agrees that the guarantee herein contained shall be irrevocable. This guarantee shall not be determined, discharged or affected by the liquidation, winding up dissolution or insolvency of the Contractor and shall remain valid, binding and operative against the Bank.

3. The bank also agree that Company as its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance, without proceeding against the Contractor and notwithstanding any security or other guarantee that Company may have in relation to the Contractor's liabilities.

4. The Bank further agree that Company shall have the fullest liberty without our consent and without affecting in any manner or obligations hereunder to vary any of the terms and conditions of the said Contract or to extent time of performance by the said contractors(s) from time to time or to postpone for any time or from time to time exercise of any of the powers

vested in Company against the said Contractor(s) and to forebear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor(s) or for any forbearance, act or omission on the part of the Company or any indulgence by Company to the said Contractors(s) or any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

5. The bank further agree that the guarantee herein contained shall remain in full force during the period that is taken for the performance of the Contract and all dues of Company under or virtue of this Contract have been fully paid or discharged or till Company discharges this guarantee in writing, whichever is earlier or until the date of expiry of the claim period specified in para-9 of this Bank guarantee, whichever shall first occur.

6. This Guarantee shall not be discharged by any change in our constitution, in the constitution of Company or that of the Contractor.

7. The Bank confirms that this guarantee has been issued with observance of the appropriate laws of the country of issue.

8. The Bank also agree that this guarantee shall be governed and construed in accordance with Indian laws and subject to the exclusive jurisdiction of Indian Courts of the place from where tenders have been invited.

9. Notwithstanding anything contained herein above our liability under this Guarantee is limited to Indian rupees _____ (_____ Only) and our guarantee shall remain in force until _____. { Indicate the date of expiry of bank Guarantee }.

10. Any claim under this Guarantee must be received by us before the expiry of this Bank Guarantee. If no such claim has been received by us by the said date, the rights of Company under this Guarantee will cease. However, if such a claim has been received by us within the said date, all the rights of the Company under this Guarantee shall not be cease until we have satisfied that claim.

11. In witness whereon, the Bank through its authorized officer has set its hand and stamp on this.....day of.....2015 at.....

The confirmation of this guarantee is available with our controlling office. The beneficiary in their own interest should obtain such confirmation from the controlling office at the following address enclosing a certified Xerox copy of the guarantee.

Signature of Authorised manager

Official address of signatory

