



भारतीय सूचना प्रौद्योगिकी संस्थान, इलाहाबाद Indian Institute of Information Technology, Allahabad

An Institute of National Importance by Act of Parliament
Deoghat, Jhalwa, Allahabad-211012 (U.P.) INDIA

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Ref. No. : IIIT-A/DR(E)/3220/2016
Date: 19th January, 2016

Tender Notice

Sealed tenders are invited under two bid systems for the purchase of **Servers, Blade Servers, Chassis and Rack** for the Indian Institute of Information Technology, Deoghat, Jhalwa, Allahabad.

The detailed specifications and terms & conditions are given in **Annexure I, II, III, IV & V**. The "Technical and Commercial Bids" in two separate sealed envelopes addressed to the Deputy Registrar (E), IIIT-Allahabad upto **10/02/2016 at 12:00 Noon**. Tender duly sealed may be dropped in the tender box placed in the office of the Deputy Registrar (E). The technical bid received in prescribed proforma will be opened in the presence of the tenderers, or authorized representatives interested to be present, on **10/02/2016 at 04:00 P.M.** The Financial bids of technically qualified tenderers will only be opened after technical evaluation by the Technical Committee. The representatives should bring the authorization letter from their authorized signatory for attending the process tender opening. The tender document may be obtained on payment of ₹1000/- (One Thousand Only) as tender processing fee from the counter at Jhalwa Campus, Allahabad. It can also be downloaded from the Institute web site www.iiita.ac.in and be submitted along with ₹1000/- of tender processing fee in form of DD.


(Dr. Seema Shah)
Deputy Registrar (E)

Copy to:

➤ **Hon'ble Director for kind information.**

Annexure-I

Technical Bid

(On letter head of the Firm & in a separately sealed envelope)

PROFORMA FOR APPLICATION

1. Name of the firm :-
2. Address of the firm :-
-
3. Phone Number (With Code):-
4. Proprietor's name: -
5. Address of Proprietor: -
6. Proprietor's Phone No. :-
7. Details of the firm:-
 - (a)Date from which the firm is operating: -
 - (b)Turnover of the firm during: - FY 2012-13 (₹).....
FY 2013-14 (₹).....
FY 2014-15 (₹).....

(Please attach documentary evidence)

- (c) PAN No. :-
- (d) TIN No. :-
- (e) Service Tax Registration No. (If any):-.....

8. Tender Processing Fee: An amount of Rs. 1,000/- (One Thousand Only) of tender (non refundable) is to be paid cash or DD payable in favour of **Indian Institute of Information Technology Allahabad** payable at **Allahabad**.

9. E.M.D. : The tenders should be accompanied in a form of a **Demand Draft/FDR** or **Bank Guarantee** in favour of **Indian Institute of Information Technology Allahabad** payable at **Allahabad** (Any bid without EMD will not be considered). EMD should be enclosed with the Technical Bid document in a separate envelop. The EMD will be returned to the unsuccessful bidders within 15 days and to the successful bidders after submission of full performance bank guarantee valid beyond 2 months of warranty period.

Amount of EMD as below:

Sl. No	Description	EMD Amount	DD No./FDR Date
1.	Servers, Blade Servers Chassis and Rack	₹ 1,00,000/-	

Annexure-II

**Technical Compliance
(To be attached with technical bid)**

Sl No.	Items	Specification	Compliance	Deviation
1.	Server	Processor: E5-2630v3 or better (w.r.t. Passmark score)		
		Cores: 8		
		Memory: 32 GB ECC (2 X 16 GB) DDR4- 1600 RAM expandable to 64GB		
		HDD : 8 TB (2 X 4 TB)		
		Graphic Card: 1 GB		
		Network Card : 2X1 GBPS NIC Card		
		Monitor: 18 inches LED		
		Keyboard: Wired USB		
		Mouse: Wired USB		
		Drive: DVD read/write drive		
		Make: HP/ Dell / IBM		
		Warranty : 5 Years OEM warranty		
		OS Support: Support latest version of CentOS		
Support: USB boot for OS installation				
2.	Server	Processor : Intel Xeon with at least 2.4 GHz frequency, with at least 4 cores/CPU		
		Number of processors : 2		
		Memory : 16 GB expandable to 32 GB (ECC-1333 or better)		
		HDD : 5 x 4 TB SAS (7.2K rpm). SATA will be considered in absence of SAS		
		RAID : Hardware RAID-5 with two hot spares		
		Optical Drive : 16X DVD+/-RW drive		
		Graphics : 1 GB dedicated video card		
		Network : 2 x Built-in 1 GBPS Ethernet LAN		
		I/O ports : 6 USB ports with at least 2 USB 3.0 ports		
		Power supply : Redundant power supply		
		Monitor : At least 18" LED		
		Keyboard : Wired USB		
		Mouse : Wired USB		
OS : RHEL7/CentOS7 compatible				
Warranty : 5 years OEM warranty				
Make & Model (family) : HP Gen9 or later / Dell PowerEdge R720 or later/ IBM x3650 m5 or later				
Support : USB boot for OS installation				
3.	Server	Processor : 6 Core Intel Xeon E5-2620 V3 or better		
		Number of processors: 02		
		Memory : 32 GB@1600 MHz DDR3 ECC RAM, expandable to 64GB		
		HDD: 1TB x 2 SATA, 10K RPM		
		RAID: Hardware RAID-5 with one hot spare		
		Optical Drive: 16X DVD+/-RW drive		
		Network: Dual 1G NIC		
		I/O ports: 6 USB ports with at least 2 USB 3.0 ports		
		Power supply: Redundant power supply		
		Monitor: At least 18" LED		
		Keyboard: Wired USB		
		Mouse: Wired USB		
		OS : CentOS7 compatible		
Warranty : 5 years OEM warranty				
Make : HP/Dell/IBM/HCL/Cisco				

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Sl No.	Items	Specification	Compliance	Deviation
4.	Chassis for blade server-	Technical Specification as Annexure-A (to be signed and stamped by the vendor. In case of any deviation please mention it clearly)		
5.	Blade Server-	Technical Specification as Annexure-B (to be signed and stamped by the vendor. In case of any deviation please mention it clearly)		
6.	Rack-	Technical specification attached Annexure-C (to be signed and stamped by the vendor. In case of any deviation please mention it clearly)		

Annexure-A

Technical Specification of Blade Chassis

Sl No.	Items	Specification	Compliance	Deviation
a)	Blade Server Chassis	Solution to house the required number of blade servers in smallest number of enclosures. Industry standard suitable for housing in Standard Server Racks - The blade enclosure should offer at least 50% more higher server density per square-foot when compared to the dense 1 U Rack servers. Should have support for Dual Processor and Quad Processor blades in the same enclosure, occupying a max of 6U rack height		
		Same enclosure should support Intel Xeon / AMD and RISC / EPIC based blades		
		Should provide an highly reliable and high performance mid- plane/back-plane design in the blade enclosure. Should provide detailed technical information		
		Support simultaneous remote access for different servers in the enclosure.		
b)	Interconnect	Should support simultaneous housing of Ethernet, FC, SAS interconnect fabrics offering Hot Pluggable & Redundancy as a feature		
c)	Blade Server interconnect to LAN/ Network	2 * Network switches with at least 5 number of 1 Gbps uplink ports per switch, up-linkable to the data center switch.		
d)	Power Supply	The enclosure should be populated fully with power supplies of the highest capacity available with the vendor. Power supplies should support N+N redundancy configuration, where N is greater than 2. Should offer choice of a single phase or 3 phase power Subsystem for flexibility in connecting to datacenter power enabled with technologies for lower power consumption		
e)	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		
f)	Warranty	3 years comprehensive warranty, 24 x 7 support with 4 hrs response time.		
g)	System Software	Management/controlling software's have to be from the OEM itself.		
h)	Deployment	Must have the capability of deploying multiple Operating Systems on the servers simultaneously and also be able to schedule deployment as and when needed.		
		Must have the capability of capturing and deploying OS images		
		Must have the capability of configuring the hardware and changing system settings such as RAID level before the deployment of the Operating System. Must also have the capability of capturing the hardware settings and replicating it across servers.		

SI No.	Items	Specification	Compliance	Deviation
i)	Remote Management	Must have a real time Virtual KVM functionality and be able to perform a remote Power sequence. Must provide both Java & Java- free browsing options.		
		Must have the ability to map the remote media to the server. Also must have the ability to transfer files from the user's desktop/ laptop folders to the remote server with only the network connectivity.		
		Must have the ability for multiple administrators across remote locations to collaborate on the remote session even in a server (with a maximum of 4 sessions)		
j)	Performance Management & Alerting	Must have the ability to perform a hardware level (32 bit & 64 bit) measurement. Must also monitor CPU, I/O, Memory, Storage & Network		
		Must have the ability to provide comprehensive recommendations for the issue and the resolution.		
		Must have the ability to automatically trigger events and alerts based on performance issues or thresholds set		
k)	Integration with Enterprise Management software	Must have the ability to get event and traps from the Datacenter equipments. Also must integrate with the higher level management such as Open View, Tivoli & UniCenter. Must also have the ability to send the alerts directly to the vendor via a secure connection for a quick fix.		
l)	Contract & Warranty Management	Must be able to track warranty information of servers and also send alerts when the warranty is about to expire. Must also be able to keep track of all hardware, firmware and basic software and generate comprehensive reports for the same. It must also provide the ability to automatically mail the report as scheduled.		
m)	Power Management	Must be able to show the actual power usage and actual thermal measurements data of the servers. Must also show a historical trend of power and temperature and generate comprehensive power reports.		
		Must be able to automatically shutdown the servers if required, based on user policies and schedules.		
		Must be able to dynamically optimize the power usage and performance based on server workload policy.		
		Must be able to cap the power of individual server or a group of servers. Must be able to intelligently assign the power to the appropriate server in the pool based on policy settings.		
		Must be able to calculate and forecast the power costs based on the pre-defined cost parameters.		
n)	Compatibility	Blade Server Chassis and Blade Servers must be compatible and from the same OEM		

Annexure-B

Technical Specification of Blade Servers

SI No.	Items	Specification	Compliance	Deviation
a)	Processor	Latest generation x86-64 processor, 2 Nos. of Intel ®Xeon® E5-2630 v3(2.4GHz/8-core/20MB/ Server should provide an intelligent socket that would ease the installation of CPU to avoid errors caused by mis-inserting processors during install or upgrade.		
b)	Memory	64 GB DIMMS scalable to at least upto 512GB, using DDR3 DIMM (DIMM) memory modules. Each DIMM should work at 1333MHz, 1860/1600, 1.35V even after populating all the DIMMs in the channel.		
c)	Memory Protection	Advanced ECC Memory Online Spare Mode		
d)	Hard disk drive with carrier	3 * 900 GB hot plug SFF SAS 10K RPM Drives.		
e)	Storage Controller	Integrated PCIe 3.0/2.0 based SAS Raid Controller with RAID 0, 1 with 512MB of Flash backed write cache onboard.		
f)	Networking features	Flexibility to choose one of below embedded ports: 1. Dual Port 10GbE Converged Network Adaptor which supports partitioning up to 3* Ethernet and 1 * FC/iSCSI HBA ports per 10 Gbps port when using with appropriate Blade interconnect 2. Dual port 10Gbps network port which supports partitioning up to 4* Ethernet ports per 10Gbps port when using with appropriate Blade interconnect 3. Dual port 10Gbps ethernet ports		
g)	Interfaces	Minimum of 1 * internal USB 2.0 port		
h)	Bus Slots	Minimum of 2 Nos of PCIe 3.0 based mezzanine slots. One PCIe x16 based and one PCIe x8 based supporting Ethernet, FC adapters, Infiniband and SAS based adaptors		
		Flexibility to choose one of below embedded ports: 1. Dual Port 10GbE Converged Network Adaptor which supports partitioning up to 3* Ethernet and 1 * FC/iSCSI HBA ports per 10Gbps port when using with appropriate Blade interconnect 2. Dual port 10Gbps network port which supports partitioning up to 4* Ethernet ports per 10Gbps port when using with appropriate Blade interconnect 3. Dual port 10Gbps ethernet ports		
i)	Graphics	Integrated G200 or better		
j)	Industry Standard Compliance	ACPI2.0 Microsoft® Logo certifications; USB 2.0 Support, IPMI 2.0 Secure Digital 2.0 TPM 1.2 Support IEEE (specific IEEE standards depending on Ethernet adapter card(s) installed) Advanced Encryption Standard (AES) Triple Data Encryption Standard (3DES) SNMP SSL 2.0 DMTF Systems Management Architecture for Server Hardware Command Line Protocol, (SMASH CLP) Active Directory v1.0, PCIe 3.0		

Sl No.	Items	Specification	Compliance	Deviation
k)	OS Support	Microsoft Windows Server Red Hat Enterprise Linux (RHEL) SUSE Linux Enterprise Server (SLES) Oracle Solaris VMware Citrix XenServer		
l)	Warranty	3 year 24x7 4Hour response time comprehensive OEM warranty		
m)	Provisioning	Essential tools, drivers, agents to setup, deploy and maintain the server should be embedded inside the server. There should be a built -in Update manager that can update firmware of system by connecting online.		
n)	Compatibility	Blade Server Chassis and Blade Server must be compatible and from the same OEM		
o)	Installation	Onsite installation of blade server in blade server chassis in the rack		

Annexure-C

Technical Specification of Rack

Sl No.	Items	Compliance	Deviation
a)	EIA310 compliant 42U, 19 inch OEM make Server Rack with sufficient cooling fans and power distribution unit of appropriate ratings for the blade enclosures and equipment proposed shall be provided.		
b)	Server Rack door shall be hinged and access protected with lock and key.		
c)	Shall be provided with perforated removable Secured Panels.		
d)	Temperature indicators should be part of the datacenter where the rack is housed for more accurate measurement.		
e)	Rack mounted management console having Minimum 17 inch sliding TFT Color Monitor with required cables, keyboard, mouse and touch pad shall be provided.		
f)	Rack shall be configured with all required accessories like SAS Cables, Ethernet Cables, Dual Power Distribution Units (PDUs), Power cables, Grounding Kit etc.		

Note:

1. Supplier need to specify the additional components for all the given specification if required and are not mentioned in specification.
2. Supplier need to specify required cooling arrangement for their product separately if specific.
3. Preference will be given to the matching product of standard make and model instead of customized solution.
4. Supplier need to clarify telephonically any doubt /confusion in the above specification.
5. Onsite installation of hardware devices and operational training to be conducted by the supplier.
6. All network related products to be installed and configured by the supplier as per requirement of the institute.
7. Installation of required Operating System to be done by the supplying agency as per requirement of the institute.
8. Maximum expandability solution with quoted for storage solution will considered as an advantage in product.

Annexure-III

Technical Terms and Conditions the Tender

1. Technical specifications in details are to be given with Technical Bid.
2. **Authorization:** The tenderer should be an authorized dealer/reseller of the Equipment /Original Equipment Manufacturer (OEM) and a certificate to this effect should be enclosed with the technical bid. Preference will be given to the firm, if Manufacturer/ Sole Distributor.
3. The tenderer should give full details of being the manufacture or sole distributor or reseller of the items with documentary evidence/authorization letter.
4. Annual Turnover of the firm should be 1 crore as above for the last three years separately.
5. The vendor should have supplied minimum order of 50 lakh and above for the quoted items.
6. Company's/firms profile, legal registrations and income tax clearance certificate should be submitted with the bidding documents.
7. Certificates/documents showing the satisfactory performance of the orders and subsequent sale service status.
8. Along with tender documents list of Clients with value of orders and actual date of completion may also be submitted.
9. **After Sale Service Support:** The vendor has to specify the after sale service support available stating the number of engineers, their technical qualification etc posted locally. If local support is not available what is the call time available, (uptime commitments).
10. **Stocking of Spares :** Spare parts stocking station and ensured prompt availability of the spares. The supplier/vender awarded the work and made the supply is required to maintain sufficient spares stock at site during the warranty period to ensure the up term commitments.
11. **Up-gradation:** The company's commitments to provide up-gradation of servers during the warranty period on need basis (supporting documents).

Annexure-IV

General Terms and Conditions of the Tender

1. **Bid:** The tenders are to be submitted in two part viz. "**Technical Bid**" and "**Commercial Bid**" in two separate sealed envelopes separately. The commercial bid will be opened only after acceptance of "Technically Bid".
2. Based on the evaluation of the technical bid submitted by the tenderer, the Committee would shortlist the tenderers. The short listed tenderers may be asked to make a presentation after opening of the technical bid before the committee if, required.
3. Detailed specifications, catalogue/literature of all the items quoted should be supplied with the technical bid.
4. **Price Basis:** Rate should be quoted F.O.R. destination at IIIT-A, Doghat, Jhalwa, Allahabad.
5. **Warranty: Warranty period Should be quoted separately.** The supplier will maintain and repair the systems during the warranty period free of cost at IIIT-Allahabad.
6. **Replacement:** Replacement guarantee and warrantee as applicable should be clearly mentioned in quotation.
7. **Security Deposit :** The Person/Firm whose tender be accepted deduction of 10% of the total amount will be made against security deposit for warranty period after adjusting the EMD amount already submitted alongwith the tender or Bank Guarantee to the value of the same amount be submitted with confirmation of the same from Nationalized Bank.
8. **Delivery Schedule:** The supply period shall commence from the date of issue of confirm purchase order and completion period may be strictly 05 weeks.
9. If the specification will not conform with the given specification consignment may be refused at the discretion of the institute.
10. In case ordered specification/model is not available after quoting the rates higher version shall be supplied without increase in cost and approval of competent authority of Institute may be sought at once.
11. **Payment:** 80% payment will be made within 15 days after acceptance of delivery of materials and balance 20% after satisfactory installation and against 10% Performance Bank Guarantee which should remain valid for a period of 60 days beyond the date of warranty.
12. **Penalty:** If the supply delayed beyond the stipulated time of completion of supply, penalty of 1% per weeks and maximum upto 10% of the total cost may be imposed at the discretion of competent authority.
13. **Exemption: The institute is exempted from custom and excise duty in terms of notification No. 51/96-custom dated 23/07/96 and No. 10/97- Central Excise dated 01/03/1997 and is an University established under M.H.R.D. Govt. of India. Certificate to this if, required shall be provided by the Institute.**
This is to certify that the Indian Institute of Information Technology, Allahabad is imparting Technical Higher Education in the field of Information Technology, established by Ministry of Human Resources Development, Government of India. The Equipment is being purchased only for Research & Teaching purposes and not for manufacturing any item for commercial use.
14. **Transit Permit:** Transit road permit in the prescribe proforma shall be made available as per rule by the Institute on the request of the supplier if, required.
15. **Price:** The rates should be quoted in Indian rupees or US Dollar (\$). Only unit rate are to be quoted both in digits and in words. In case of a discrepancy in the two, quoted rates in

words will be taken as valid and final. Rates of Dollar (\$) will be calculated on the date of opening of Financial Bid as per selling price of US Dollar of the bankers of Institute. In case FOR destination CIF, New Delhi, the cost of custom duty, Storing and clearing charges, Transport charges to Allahabad and other charges (such as- bankers Letter of Credit (LC) charges etc.) will be added extra.

16. **Taxes: The unit rates should be quoted exclusive of all taxes, duties, levies, freight, insurance etc., which may be given separately indicating the nature of taxes charged.** Rates for additional/optional features should be quoted separately. This may be considered separately by the committee.
17. If any defect is found in transit it will be the sole responsibility of the supplier to get is corrected and installed as desired by the user.
18. The quantities included in the tender can be increased or decreased at the discretion of the Director, Indian Institute of Information Technology, Allahabad
19. The supplier shall be liable to install all the computers and provide certificate to this effect that all are working as per their standards.
20. **The Institute intends to adopt a buy back policy for these servers after expiry of warranty. Rates should be quote separately offering terms & conditions of buy back.**
21. Each tenderer should clearly specify that the tenderer agrees to abide by the conditions of this tender document on their printed letter head indicating here on Sales Tax Registration, FAX, Email, Telephone numbers, etc.
22. **Force Majeure** : Either party shall be entitled to suspend performance of his obligations under the agreement to the extent the such performance is impeded or made unreasonable onerous by any of the following circumstances : Industrial disputes and any other circumstances beyond the control of the bidder such as Fire, War (whether declared or not) Extensive military mobilisation, Earthquake, Insurrection, Requisition, Seizure, Embargo, in the use of power and defects or delay in deliveries by bidder caused any such circumstances referred to in this condition. A notice in writing without any delay should be given by the bidder claiming to be affected by force majeure.
23. Quoted rate should be valid at least for 03 months.
24. The lowest rate will not be the basis of claim to get the order.
25. The firm/company's black listed at any stage need not to apply.
26. **All pages of the tender documents are to be signed and stamped by the tendering firm.**
27. Director, Indian Institute of Information Technology, Allahabad reserves the right to reject or accept any tender.
28. Director, Indian Institute of Information Technology, Allahabad will be the sole arbitrator of all the dispute and his decision will be binding on both the parties.
29. Director, Indian Institute of Information Technology, Allahabad reserves the right to alter/modify any or all conditions of this tender notice.
30. Quotation should be addressed to Deputy Registrar (E), Indian Institute of Information Technology, Allahabad-211012 (U.P.) India.
31. It is mandatory to mention enquiry reference number, subject, due date contact address etc on your quotation. Incomplete quotation will not be accepted.
32. Kindly quote your email ID and Bank details etc.
33. All disputes are subject to Jurisdiction of Allahabad.

For any query pertaining to this bid correspondence may be addressed to

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Dr. Seema Shah
Deputy Registrar (E)
IIIT-Allahabad, Jhalwa, Campus
Phone : +91 0532-2922008
E-mail: info.purchase@iiita.ac.in

Deputy Registrar (E)

Certified that the information in the proforma is true. I/We agree to the contents of terms & condition of the quotation/tender.

.....
Seal and Signature of the Proprietor/Authorized Representative

Annexure-V

Financial Bid

(On letter head of the Firm & in a separately sealed envelope)

Sl No.	Item		Qty.	Unit Price	Total Cost
1.	Server	Processor: E5-2630v3 or better (w.r.t. Passmark score) Cores: 8 Memory: 32 GB ECC (2 X 16 GB) DDR4- 1600 RAM expandable to 64GB HDD : 8 TB (2 X 4 TB) Graphic Card: 1 GB Network Card : 2X1 GBPS NIC Card Monitor: 18 inches LED Keyboard: Wired USB Mouse: Wired USB Drive: DVD read/write drive Make: HP/ Dell / IBM Warranty : 5 Years OEM warranty OS Support: Support latest version of CentOS Support: USB boot for OS installation	04		
2.	Server	Processor : Intel Xeon with at least 2.4 GHz frequency, with at least 4 cores/CPU Number of processors : 2 Memory : 16 GB expandable to 32 GB (ECC-1333 or better) HDD : 5 x 4 TB SAS (7.2K rpm). SATA will be considered in absence of SAS RAID : Hardware RAID-5 with two hot spares Optical Drive : 16X DVD+/-RW drive Graphics : 1 GB dedicated video card Network : 2 x Built-in 1 GBPS Ethernet LAN I/O ports : 6 USB ports with at least 2 USB 3.0 ports Power supply : Redundant power supply Monitor : At least 18" LED Keyboard : Wired USB Mouse : Wired USB OS : RHEL7/CentOS7 compatible Warranty : 5 years OEM warranty Make & Model (family) : HP Gen9 or later / Dell PowerEdge R720 or later/ IBM x3650 m5 or later Support : USB boot for OS installation	01		
3.	Server	Processor : 6 Core Intel Xeon E5-2620 V3 or better Number of processors: 02 Memory : 32 GB@1600 MHz DDR3 ECC RAM, expandable to 64GB HDD: 1TB x 2 SATA, 10K RPM RAID: Hardware RAID-5 with one hot spare Optical Drive: 16X DVD+/-RW drive Network: Dual 1G NIC I/O ports: 6 USB ports with at least 2 USB 3.0 ports Power supply: Redundant power supply Monitor: At least 18" LED Keyboard: Wired USB Mouse: Wired USB OS : CentOS7 compatible Warranty : 5 years OEM warranty Make : HP/Dell/IBM/HCL/Cisco	02		

4.	Chassis for blade server-	As per Technical Specification as Annexure-A	01		
5.	Blade Server-	As per Technical Specification as Annexure-B	04		
6.	Rack-	As per Technical specification attached Annexure-C	02		
	Total Amount-				
	Taxes-				
	Grand Total-				

Note:-

- In addition the bidder should specify the power consumption of the quoted model and the cooling arrangement.
- Rates may be quoted separately for each option.
- If specification of higher version of servers are found quoted in lowest price, this may be accepted by competent authority of Institute.