



Dated :- 29.12.18

BIDDING DOCUMENT

(Tendor No.IIITK/Tender/2018/90)

For Supply Of

GPU Server

Subject :- Procurement of GPU Server.

IIIT Kalyani, an Institute of National Importance, invites sealed Bids from Principle manufacturers/ authorized distributors/bonafide suppliers who have adequate credentials for procurement of GPU Server as per the details given below.

Technical Specification of Sever

Item	Description of Requirement	Quantity
Chassis	2 U Rack Mountable	1 no.
CPU	Two numbers of latest generation Intel Xeon Gold series processors, each with minimum 14 cores, 2.20 GHz.	
CPU L3 CACHE	Minimum 19 MB	
Memory		
Motherboard	Intel C621 Series Chipset	
Memory	Minimum 128 GB RAM scalable up to 1 TB using DDR4 DIMMs	
Memory Protection	Advanced ECC with multi-bit error protection, Online spare, mirrored memory and fast fault tolerance	
Hard disk drive	4 * 4 TB hot plug Mid-line 7.2K LFF SAS drives.	
Controller	PCIe 3.0 based 12Gb/s SAS Raid Controller with RAID 0/1/1+0/5/50/6/60/1 Advanced Data Mirroring/10 Advanced Data Mirroring with 2GB battery backed write cache (onboard or on a PCI Express slot).	
Networking	Minimum 4* 1G network ports	
GPU	NVIDIA P100 GPU with enablement Kit	
Interfaces	Serial – 1, Micro SD slot – 1, USB 3.0 support With Up to 5 total: 1 front, 2 rear, 2 internal (secure)	
Bus Slots	Minimum Six PCI-Express 3.0 slots	
Power Supply	Should support hot plug redundant 800W power supplies	
Fans	Redundant hot-plug system fans	
Industry Standard Compliance	ACPI 6.1 Compliant, PCIe 3.0 Compliant, PXE Support, WOL Support, Microsoft® Logo certifications, USB 3.0 Support, USB 2.0 Support, Energy Star, ASHRAE A3/A4, UEFI (Unified Extensible Firmware Interface Forum)	
System Security	UEFI Secure Boot and Secure Start support, Security feature to ensure servers do not execute compromised firmware code, FIPS 140-2 validation, Common	

	Criteria certification, Configurable for PCI DSS compliance, Advanced Encryption Standard (AES) and Triple Data Encryption Standard (3DES) on browser, Support for Commercial National Security Algorithms (CNSA) mode to prevent the use of insecure algorithms, Tamper-free updates - components digitally signed and verified Secure Recovery - recover critical firmware to known good state on detection of compromised firmware Ability to rollback firmware Secure erase of NAND/ User data TPM (Trusted Platform Module) 1.2 option TPM (Trusted Platform Module) 2.0 option Bezel Locking Kit option Chassis Intrusion detection option	
Operating Systems and Virtualization Software Support	Microsoft Windows Server, Red Hat Enterprise Linux (RHEL), SUSE Linux Enterprise Server (SLES) VMware ClearOS	
Firmware security	<ol style="list-style-type: none"> 1. For firmware security, system should support remote management chip creating a fingerprint in the silicon, preventing servers from booting up unless the firmware matches the fingerprint. This feature should be immutable 2. Should maintain repository for firmware and drivers recipes to aid rollback or patching of compromised firmware. Should also store Factory Recovery recipe preloaded to rollback to factory tested secured firmware 	
Embedded Remote Management and firmware security	<ol style="list-style-type: none"> 1. System remote management should support browser based graphical remote console along with Virtual Power button, remote boot using USB/CD/DVD Drive. It should be capable of offering upgrade of software and patches from a remote client using Media/image/folder; It should support server power capping and historical reporting and should have support for multifactor authentication. 2. Server should have dedicated 1Gbps remote management port 3. Remote management port should have storage space earmarked to be used as a repository for firmware, drivers and software components. The components can be organized in to install sets and can be used to rollback/patch faulty firmware. 4. Server should support agentless management using the out-of-band remote management port 5. The server should support monitoring and recording changes in the server hardware and system configuration. It assists in diagnosing problems and delivering rapid resolution when system failures occur 6. Applications to access the server remotely using popular handheld devices based on Android or Apple IOS should be available 7. Remote console sharing up to 6 users simultaneously during pre-OS and OS runtime operation, Console replay - Console Replay captures and stores for replay the console video during a server's last major fault or boot sequence. Microsoft Terminal Services Integration, 128 bit SSL encryption and Secure Shell Version 2 support. Should provide support for AES and 3DES on browser. Should provide remote firmware update functionality. Should provide support for Java free graphical remote console. 8. Should support managing multiple servers as one via Group Power Control, Group Power Capping, Group Firmware Update, Group Configuration, Group Virtual Media, Group License Activation 9. Should support RESTful API integration 10. System should support embedded remote support to transmit hardware events directly to OEM or an authorized partner for automated phone home support 	
Server	Software should support dashboard view to quickly scan the managed resources	

Management	to assess the overall health of the data center. It should provide an at-a-glance visual health summary of the resources user is authorized to view.	
	The Dashboard minimum should display a health summary of the following: <ul style="list-style-type: none"> • Server Profiles • Server Hardware • Appliance alerts 	
	The Systems Management software should provide Role-based access control	
	Management software should support integration with popular virtualization platform management software like vCenter, and SCVMM	
	Should help provide proactive notification of actual or impending component failure alerts on critical components like CPU, Memory and HDD.	
	Should provide an online portal that can be accesible from anywhere. The portal should provide one stop, online access to the product, support information and provide information to track warranties, support contrats and status. The Portal should also provide a personalised dashboard to monitor device heath, hardware events, contract and warranty status. Should provide a visual status of individual devices and device groups. The Portal should be available on premise (at our location - console based) or off premise (in the cloud).	
	Should help to proactively identify out-of-date BIOS, drivers, and Server Management agents and enable the remote update of system software/firmware components.	
	The Server Management Software should be of the same brand as of the server supplier.	
Note:- <ul style="list-style-type: none"> • Quoted systems should be complete from single manufacturer only. • Prerequisites for Installation should be mentioned along with quotation • Similar setup installation in India, information is mandatory • Service support confirmation in India to be given. • Credentials of the manufacturer to be provided with the quotation. • The manufacturer of the machine as well as their Indian supplier/agent company should be registered with ISO 9001-2000. Product should be CE complied		

- **Network Configuration Charges to be included**

TERMS & CONDITIONS AND IMPORTANT INSTRUCTIONS FOR BIDDING

1) Bidders are invited to submit sealed quotations on official pad/letter head of the manufacturer/authorized distributor/bonafide supplier as per the Technical Specifications for tendered items to Office of Registrar, Indian Institute of Information Technology Kalyani , Webel IT Park, Kalyani, Nadia, Pin Code - 741235, West Bengal between 11.00 am to 3.00 pm with signature in each page of quotations.

2) The last date of receipt of tender is **25.01.2019 upto 3.00 PM..** Quotations received later will not be entertained under any circumstances.

3) **EMD of Rs. 30,000/- and tender fees of Rs. 5000/- have to be submitted through separate Demand Draft in favour of Registrar, Indian Institute of Information Technology Kalyani.**

4) Date and Time of opening the bid is 25.01.2019 at 3.30 pm and the place of opening of bid is office of IIIT Kalyani.

5) Bidders are to submit the quotations in sealed envelopes at the office in the Following address.
Registrar,
Indian Institute of Information Technology Kalyani,

Webel IT Park, Kalyani
Nadia, Pin Code- 741235
West Bengal.

6. The bidders should have experience of similar works during the last minimum 5 years (ending 31.03.2018) .

NB:- “ Similar works” means supply, installation, testing and commissioning of GPU Server in Government/PSUs/Public Sector Banks/Autonomous Bodies/Private Sector etc.

7. All bidders should submit two bids (1. Technical & 2. Financial) in two separate sealed envelopes (Tender Number must be mentioned on envelope). The price quoted should be separate. All Taxes, duties, levies or any other charges to deliver items at the premises of the Institute. All taxes, freight, insurance charges, installation charges or any other specified overheads etc. should be clearly indicated . Inclusion of Tax/levy or any other charges at a later stage will not be accepted . At the end , the total price of a single item must be indicated as TOTAL PRICE: Rs.....only .

8. Vendors must enclose attested copies of Trade licence, GST Registration, PAN Card or any other statutory testimonials etc. including IT return for last 3 years along with the bidding document, otherwise their tender will be cancelled.

9. The items must be supplied within a period of 30 days after the receipt of the purchase order

10. The materials are to be supplied at a place within IIITK premises between 11.00 am and 4.00 pm. The tenderer will be responsible for any breakage/damage in item/product detected subsequently.

11. Bills in triplicate should be presented for payment within 15 days of supply/completion of work. **No Advance Payment will be Allowed.** All bills are to be accompanied by order copies and challan receipt. The order number is to be noted on both the challan and the Bill.

12. Documents to be submitted with the tender - Tender documents/Terms & Conditions in Original duly signed by the Proprietor/Partner/Director of the company as a token of acceptance of terms & conditions of Tender.

13.If there are any doubt please contact Dr Sanjay Chatterji (9740122889) between 2.00 pm - 4.00 pm. Bidders are advised to clear all doubts (if any) before submitting quotations. After submission the same, they shall not be entertained / not eligible to re-consider any issues under any circumstances.

Registrar (offg.)
IIIT Kalyani