



Indian Institute of Technology Hyderabad  
Kandi 502 285, Telangana, India  
Phone: 040-23016042; Fax: 040-, 23016032  
E-Mail: pur\_rd@iith.ac.in

Enquiry No. IITH/CSE/SATHYA\_P/2020/T314

Date: 27-08-2020

**NOTICE INVITING TENDER (NIT)**

To

Dear Sir/Madam,

<b>Sub: Quotation for Supply of "2U Rack Server, 4U Rack Server &amp; GPU Card"- Reg.</b>
<b>Ref: Our Enquiry No. IITH/CSE/SATHYA_P/2020/T314 Date: 27-08-2020</b>
<b>Last date &amp; time for submission of offer: 10-09-2020 at 03:00 pm.</b>
<b>Date &amp; Time of Tender Opening : 10-09-2020 by 03:30 pm.</b>

This Institute is interested in purchase of the following Indigenous / Imports material as per the enclosed terms and conditions.

S.No	Description	Qty Nos.
1	2U Rack server	01
2	4U Rack server	01
3	GPU Card	01
	(Technical specification as per ANNEXURE-I of NIT)	

For any technical query related to enquiry you may feel free to contact  
Dr Sathya Peri Dept. Of CSE  
Email: [sathya\\_p@iith.ac.in](mailto:sathya_p@iith.ac.in)

Kindly acknowledge receipt.

Yours faithfully,

(JAGADESWARA RAO B)  
Deputy Registrar

**TERMS & CONDITIONS:**

1.	We are interested in the material available from <b>Ready Stock / Within 0 weeks.</b>
2.	The rate quoted should be <b>free delivery at IITH Stores, Kandi 502285 / FOR Imports upto CIP Hyderabad Airport basis.</b>
3.	The complete offer should be typed in the letterhead of the tenderer. The offer should be signed & stamped by Company's authorized signatory.
4.	Rates quoted in the tender should be <b>inclusive</b> of GST, and should be valid for 90 days. Breakdown details of packing, forwarding, freight and insurance charges in percentages should be shown separately. The goods should be insured in our favor against all risks from Warehouse to warehouse.
5.	The rate of GST should be clearly indicated wherever chargeable. However, the concessional rate of Central Sales Tax admissible to research institutes on purchase of scientific equipments from certain States is applicable to this Institute.
6.	The Delivery period should clearly have indicated and strictly adhered to in the event of an order is placed against your offer. Late delivery will attract liquidated damages @1 % per week subject to a maximum of 10% of the total value of supply order.
7.	Incase any of the items mentioned on pre-page is on the current rate/running contract please quote the DGS&D rate contract reference and also send a copy of the latest R.C.
8.	<b>Payment</b> for the supply will be made by Cross Cheque/RTGS/NEFT through State Bank of India, IIT Hyderabad Branch, Hyderabad, 502 285 <b>within 30days from the date of receipt and acceptance of material</b> and your bill in triplicate original signed over a revenue stamp affixed. In case of Equipment/Instruments the payment will be made after installation of the material. No Payment in Advance will be done.
9.	Quotation erased & overwritten will be summarily rejected unless corrections are authenticated with the tenderer's signature.
10.	The Offer should be submitted strictly as per the terms and conditions failing which the offer will be liable for rejection. In the event of the tenderer remaining silent on any terms& conditions of the NIT, it will be presumed that the tenderer(s) have accepted such terms and conditions in the event of any order/contract on them.
11.	<b>No deviation of the terms and conditions is acceptable. Terms and conditions which are in deviation of the tender terms are liable for rejection without making back reference to the tenderer.</b>
12.	<b>Conditional tenders will not be accepted.</b>
13.	(a) Quotation should be sealed & addressed to The Director, Indian Institute of Technology Hyderabad, Kandi 502285, Telangana. India. The cover should be sealed with wax and super scribed as per subject and enquiry No. mentioned on pre page. Quotation delivered personally should be delivered to the Receipt &Dispatch Section of IIT Hyderabad. Late & Delayed tenders will not be considered
14.	IIT Hyderabad does not take any responsibility for loss of tender in transit.
15.	The tender(s) should enclose the list of similar item(s) if supplied to any of the IIT Laboratories for the past three years with complete address, telephone /Fax No. and the contact person to whom they have supplied and installed similar item(s)with their tenders along with the prices finally paid.
16.	<b>Warranty &amp; Maintenance contract:</b> The supplier shall <b>warranty</b> equipment, system components for a minimum period of <b>Three years</b> following satisfactory installation and commissioning. The defects, if any, during the guarantee/warrantee period are to be <b>rectified free of charge by arranging free replacement wherever necessary. Any expenditure including government levies on account of the replacement are to be borne by the supplier/agent.</b>  The supplier shall offer an annual test & maintenance agreement for three years, consisting of the following:  Regularly and systematically examine, test and adjust all system components. Submit test reports that certify all components have been tested and the system is in proper working order and functions in accordance with this specification.



17.	<p>a) <b>Spares &amp; service Support:</b> The instrument supplied shall be of latest technology and model, so that you would support with onsite service and spares.</p> <p>b) Complete system pre-installation requirements.</p>
18.	<p><b>Installation &amp; Testing:</b> The installation shall be completed <b>within a week</b> from the date of intimation regarding the arrival of the equipment in the institute. A Penalty equivalent to 1% of the value of the goods will be levied for every week's delay in installation. The installed system shall be performance tested at our premises in accordance with the manufacturer's/supplier's recommendation/specifications. Tests shall demonstrate the proper operation of the instrument and all components.</p>
19.	<p><b>Commissioning &amp; Training:</b> The supplier shall perform on site installation, commissioning &amp; startup of all system components in order to provide fully functional; system. The supplier shall train onsite institute's personnel on the operation and maintenance of the system framework. The supplier shall perform system check-out /start-up and /or training functions <b>free of cost</b>.</p>
20.	<p>The Director, IIT Hyderabad reserves the right to reject or accept or withdraw the tender in full or part and to increase or decrease the quantity without assigning reason thereof.</p>
21.	<p>The quotations are liable to be rejected if any of the above conditions are not complied with. The quotations should be complete in all respects duly signed wherever required. Incomplete and unsigned offers will not be considered. Quotations that are unclear leave room for interpretation will be considered non-responsive and will not be evaluate.</p>
22.	<p><b>ARBITRATION:</b> a) Unless otherwise specified, in all cases of disputes which cannot be settled by mutual negotiations, the disputes or differences shall finally be settled and binding on both parties by arbitration in conformity with the rules of Indian Arbitration Act, 1940. All disputes or differences what so ever arising between the parties out of relating to the construction, meaning and operation or effect of the general terms and conditions including the Purchase Order or the breach thereof shall be settled by Arbitration Act, 1940 and the award made in pursuance thereof shall be binding on the parties.</p> <p>b) Performance of the purchase order shall continue during arbitration and any subsequent proceedings.</p> <p>c) The Jurisdiction and Venue of arbitration shall be Hyderabad. The Arbitrator will be the Director, IIT Hyderabad, or his nominee.</p>
23.	<p><b>RISK PURCHASE:</b> If you fail to deliver the ordered material within the maximum delivery period stipulated in the purchase order, we may procure the same items in such a manner as it deemed appropriate for us. And, if we happen to incur any additional cost in the process of our procurement of similar materials you are liable to pay the same.</p>
24.	<p><b>FORCE MAJURE:</b> If the performance of the obligation of either party is rendered commercially impossible by any of the events herein-after mentioned, the same party shall notice of 15 days from the date of such an event in writing to the other party.</p> <p>i) Government regulation; (ii) Legislation; (iii) Natural disasters; (iv) Strikes; (v) Lockout; (vi) Act of God.</p>
25.	<p><b>Any bidders from a country sharing a land border with India will be eligible to bid in the tender only if the bidder is registered with the department for promotion of industry and internal trade (DPIIT). Details of requirement of Registration and Certificate by bidder is enclosed as Annexure-II &amp; III</b></p>

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DEPUTY REGISTRAR

## Specifications:

**TYPE 1 : GPU Rack server - 1 No.****Name: 4U Server (EPYC / Xeon)**

S. No	Description	Specification
1	Processor	AMD EPYC or Intel Xeon
2	Core/Processor/Threads	Minimum 24 cores per processor, minimum 2 threads per core
3	Processor Speed	Minimum 2.1 GHz
4	L3 Cache	35 MB or Higher per processor
5	No of CPU-Min	Machine to be supplied with a minimum of 2 Processor
6	Chipset	Compatible chipset for the processor
7	DIMM Slots	16 or Higher
8	Memory Configuration	The System has to be supplied with atleast 256GB RDIMM (operating @2933 MHz or higher) for balanced configuration and optimum performance
9	Memory Property	The System should support minimum Memory of 768 GB or Higher
10	RAID Controller	RAID Controller Support RAID Level 0, 1, 5, 6 & 10 with minimum 1GB Cache with hot spare disk configuration feature
11	HDD Bays	The system should support at least 8 Nos. and above of 2.5 inch or 3.5 inch Hot Plug SAS/SSD Hard Disks
12	HDD Required	The System should be supplied with 2 nos. of 1.8TB or more SAS 12Gbps HDD 10K RPM.
13	PCI Slot Compatibility	Minimum 4 "full length+full height+doublewidth" PCI-e 3.x x16 slots and Minimum 2 half height PCI-E 3.x x8 Slots. Bidder must supply GPU power cables/raiser-card kit for all 4 GPUs. Bidder must supply one NVLink for interconnecting RTX 5000 GPUS (Whenever our experiments need the GPUs to be moved from type2 servers)
14	Network	The system should supply at least 2 ports of 1G Ethernet port and 2 nos. of 10G BaseT ports and 1 dedicated management port. All necessary License for management has to be offered along with bid.
15	Ports	4 or higher, of which at least 2 must be USB 3.0
16	GPU support	Should support the following GPUS for requirement: four Nvidia RTX 5000 with two nvlincs (or) four RTX 2080Ti GPU with two Nvlincs
17	GPUs	None
18	Video Controller	On-Board Video Controller of at least 16 MB
19	OS Supported	Ubuntu Server 18 and above; CentOS 7 and above

20	Redundancy	The System should be supplied with Redundant hot swappable Fans and redundant Power Supplies in 1 + 1 mode
21	Power Supply	The System should be supplied with a minimum of 2000W High efficiency platinum AC power supply or above
22	Systems Managements	Redfish, IPMI KVM, IPMI/DCMI over LAN, PXE booting, Energy measurement, vDVD, Remote BIOS, OS installation, power-cycle features. And Proactive platform alerts, System Health Diagnostic. Necessary licenses for these features. Hardware supporting OpenBMC (ASPEED2500 or later other OpenBMC compatible) supporting upstream OpenBMC is preferred
23	Security Features	Power-on Password, administrator's password, UEFI firmware, secure firmware updates, Trusted platform module.
24	Rails	Should provide rack mounting kit and Rails to mount the server on 19" RACK
25	Form Factor	Rack Mountable, 4U or lower with sliding rails
26	Accessories	The system has to be supplied with standard documentation, cables, Rack Mount Kit and necessary accessories should be supplied
27	Warranty	Three Years Onsite Comprehensive Warranty Maintenance for the Hardware. With same day remote online response and next business day onsite visit.
28	Noise	Average eight-hour noise generated by each of the server should not exceed 85 dBA on average under normal operating conditions. (without GPUs). If the noise-level information is not available in product manuals or specifications, OEM/Bidder can give a declaration on their letter head about the noise level under normal operating conditions.
29	Heating	The Server must support monitoring various temperature sensors in the processor module, memory modules, and environmental temperature sensors, and safeguards the system if the temperature rises over thresholds that are defined by the design. The server preferably has inlet-temperature, outlet-temperature or system-temperature sensors in the chassis from which valid readings must be readable using Redfish Thermal and/or IPMI SDR request.

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**TYPE 2 : Rack Server - 1 No. or 2, if budget is available****Name: 2U GPU Server (EPYC)**

<b>S. No</b>	<b>Description</b>	<b>Specification</b>
1	Processor	AMD EPYC
2	Core/Processor/Threads	Minimum 32 cores per processor, minimum 2 threads per core
3	Processor Speed	Minimum 2.35 GHz
4	L3 Cache	128 MB or Higher per processor
5	No of CPU-Min	Machine to be supplied with a minimum of 2 Processor
6	Chipset	Compatible chipset for the processor
7	DIMM Slots	32 or Higher
8	Memory Configuration	The System has to be supplied with atleast 256GB RDIMM (operating @2933 MHz or higher) for balanced configuration and optimum performance
9	Memory Property	The System should support minimum Memory of 768 GB or Higher
10	RAID Controller	RAID Controller Support RAID Level 0, 1, 5, 6 & 10 with minimum 1GB Cache with hot spare disk configuration feature
11	HDD Bays	The system should support at least 8 Nos. and above of 2.5 inch or 3.5 inch Hot Plug SAS/SSD Hard Disks
12	HDD Required	The System should be supplied with 2 nos. of 1.8TB or more SAS 12Gbps HDD 10K RPM.
13	PCI Slot Compatibility	Minimum 1 "full length+full height+double-width" PCI-e 3.x x16 slot and Minimum 3 nos of PCIe 3.x x8 Low Profile slots. Bidder must supply GPU power cable/raiser-card kit for the GPU.
14	Network	The system should supply at least 2 ports of 1G Ethernet port and 2 nos. of 10G BaseT ports and 1 dedicated management port. All necessary License for management has to be offered along with bid.
15	Ports	4 or higher, of which at least 2 must be USB 3.0
16	GPU support	atleast 1 double-width GPU card (or more)
17	GPUs	None
18	Video Controller	On-Board Video Controller of at least 16 MB
19	OS Supported	Ubuntu Server 18 and above; CentOS 7 and above
20	Redundancy	The System should be supplied with Redundant hot swappable Fans and redundant Power Supplies in 1 + 1 mode
21	Power Supply	The System should be supplied with a minimum of 1400W High efficiency platinum AC power supply or above

22	Systems Managements	<p>Redfish, IPMI KVM, IPMI/DCMI over LAN, PXE booting, Energy measurement, vDVD, Remote BIOS, OS installation, power-cycle features. And Proactive platform alerts, System Health Diagnostic.</p> <p>Necessary licenses for these features.</p> <p>Hardware supporting OpenBMC (ASPEED2500 or later other OpenBMC compatible) supporting upstream OpenBMC is preferred</p>
23	Security Features	<p>Power-on Password, administrator's password, UEFI firmware, secure firmware updates, Trusted platform module.</p>
24	Rails	<p>Should provide rack mounting kit and Rails to mount the server on 19" RACK</p>
25	Form Factor	<p>Rack Mountable, 2U or lower with sliding rails</p>
26	Accessories	<p>The system has to be supplied with standard documentation, cables, Rack Mount Kit and necessary accessories should be supplied</p>
27	Warranty	<p>Three Years Onsite Comprehensive Warranty Maintenance for the Hardware. With same day remote online response and next business day onsite visit.</p>
28	Noise	<p>Average eight-hour noise generated by each of the server should not exceed 85 dBA on average under normal operating conditions. (without GPUs). If the noise-level information is not available in product manuals or specifications, OEM/Biddercan give a declaration on their letter head about the noise level under normal operating conditions.</p>
29	Heating	<p>The Server must support monitoring various temperature sensors in the processor module, memory modules, and environmental temperature sensors, and safeguards the system if the temperature rises over thresholds that are defined by the design. The server preferably has inlet-temperature, outlet-temperature or system-temperature sensors in the chassis from which valid readings must be readable using Redfish Thermal and/or IPMI SDR request.</p>

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**Type 3: GPU Card - 1 No.**

<b>S. No</b>	<b>Description</b>	<b>Specification</b>	<b>Quantity *</b>
1	GPU	Nvidia RTX 2080Ti (or) RTX 5000	1
2	NVLink	Compatible NVLINK Bridge	1

\* Bidders must clearly give the price of each GPU card. Minimum one GPU will be purchased. Quantity of GPUs may be increased based on the remaining budget available. In case two or more GPU cards are purchased, one compatible NVLink Bridge is required. If only one GPU card is purchased, NVLink bridge will not be purchased.

**Terms & Conditions**

1. All the equipment must be compatible with Indian electrical standards and codes.
2. Bidder must provide letters from respective OEMs that the offered products are certified and compatible and support will be available with spare parts and accessories for a minimum of 3 years from the date of installation
3. Institute reserves the right to alter the quantity of the components and no reason will be necessary to be provided by the Institute for the same.
4. The hardware should be quoted with 3 years of warranty or support subscription as relevant with next business day onsite response for hardware problems.
5. Bidder should be a Registered company/firm in India and existing for the past Five years in India.
6. The Bidder must provide business day support during business hours (9 am to 5 pm) for three years.
7. The OEM must have an authorized customer service center in Hyderabad for fast resolution of issues.

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**Requirement of registration:**

Vide Ministry of Finance OM No. 6/18/2019-PPD dated 23rd July 2020.

i. Any bidder from a country sharing a land border with India will be eligible to bid in this tender only if the bidder is registered with the Department for Promotion of Industry and Internal Trade (DPIIT). A copy of the valid Certificate to be attached with the Bid.

ii. "Bidder" (including the term 'tenderer', 'consultant' or 'service provider' in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.

iii. "Bidder from a country which shares a land border with India" for the purpose of this Order means:

a) An entity incorporated, established or registered in such a country; or

b) A subsidiary of an entity incorporated, established or registered in such a country; or

c) An entity substantially controlled through entities incorporated, established or registered in such a country; or

d) An entity whose beneficial owner is situated in such a country; or

e) An Indian (or other) agent of such an entity; or

f) A natural person who is a citizen of such a country; or

g) A consortium or joint venture where any member of the consortium or joint venture falls under any of the above

For details about registration procedures please visit the above mentioned OM. Mandatory documentary evidence regarding the bidder's registration with DPIIT is to be submitted along with the tender, failing which the tender shall be liable for rejection.



**CERTIFICATE BY BIDDER**

“I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a country or, if from such a county, has been registered with the Competent Authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered.

Signature with Date and Stamp.