

INDRAPRASTHA INSTITUTE of INFORMATION TECHNOLOGY DELHI

TENDER FOR SUPPLY & INSTALLATION OF GPU COMPUTE NODES FOR CAMPUS OF THE INSTITUTE AT OKHLA PHASE-III, NEW DELHI-<u>110020</u>

(IIIT-D/IT/Servers/037/2024-25)

INVITATION FOR BIDS

Indraprastha Institute of Information Technology -Delhi (IIITD), a State University created by an Act of Govt. of NCT of Delhi, invites sealed bids for **Supply and installation of GPU Compute Nodes** (as per specifications mentioned under Scope of Work below) for its campus at Okhla Phase-III New Delhi-110020.

- 1. An amount of Rs. 2,00,000/- (Two Lakhs only) towards earnest money (EMD) must be deposited in the form of demand draft in favour of "IIIT-Delhi Collections" account, payable at New Delhi. No interest will be paid on the earnest money deposited by the bidder. Tender Document without earnest money will be summarily rejected. EMD is exempted for MSMEs/NSIC registered suppliers
- 2. The tender document can be downloaded from the Institute's website. Those wishing to get the copy of the document from the Institute may please deposit a non-refundable Tender Document Fee of Rs.1, 180/- (Rupees One Thousand One Hundred Eighty only) in the form of Demand draft drawn in favour of IIIT-Delhi Collections", payable at New Delhi or may deposit Rs.1, 180/-with the F&A division of the Institute and enclose the receipt with the filled up tender document. The tender fee is exempted for MSMEs/NSIC registered suppliers.
- 3. The last date for submission of Bid is 3rd April 2025 up to 3:00 PM. The Technical Bids shall be opened on the same day, i.e., on 3rd April 2025, at 3.30 PM. The Tender Document should be addressed to:

Registrar, Indraprastha Institute of Information Technology-Delhi Okhla Phase-III (Behind Govind Puri Metro Station) New Delhi-110020.

The document should be deposited in the Tender Box kept in the Store & Purchase department in Room no. A 108, First Floor, Old Academic Block of the Institute. Bids received after 3:00 PM will not be accepted or considered under any circumstances.

Bidding Procedure:

1. Bids are invited in Two Bids System, i.e. (1) Technical and (2) Financial.

Technical and Financial bids should be sealed separately and enclosed in a sealed envelope clearly indicating separately Technical Bid for "**Supply and installation of GPU Compute Nodes**" and Financial Bid for "**Supply and installation of GPU Compute Nodes**" addressed to Registrar IIIT-Delhi, Okhla Industrial Area Phase-III, New Delhi-110020.

- 2. Sealed quotations shall be received no later than 3.00 PM on 3rd April 2025. No bids will be accepted after this date & time under any circumstances. The Institute will not be responsible for any postal/courier delay and reasons beyond the Institute's control.
- 3. Technical bids must contain the EMD for specified amount, along with complete technical details as desired by this tender. Technical bids of all the tenderers will be opened on pre scheduled date, time & venue. Technical bids without EMD will be summarily rejected. The financial bid will be opened after evaluation of the technical bid. Financial bid of only those meeting the requirement of the Institute will be opened and no representation in this regard will be entertained. The date, time of opening of financial bid will be communicated later. The EMD is exempted for MSMEs/NSIC registered suppliers.

Scope of work

Implementation Work

- a) All the components shall be supplied, installed, integrated & commissioned along with benchmarking specified.
- b) The existing PFS storage and, switches to be integrated with the compute nodes.
- c) Scheduling of workloads in cluster should be demonstrated.
- d) All activities to be executed for integration and persistent mounting of storage on base operating system and containers on Compute and Master Server.
- e) Workloads should be able to use PFS storage from any of the compute nodes.
- f) Flexibility of scheduling on any node should be demonstrated.
- g) Movement of workloads from one compute node to another node to be demonstrated in case of failure of a compute node.
- h) Interconnect cables should be provided by the bidder for the complete solution.
- i) Entire solution must be quoted with five years of 24x7 support with Next Business Day parts delivery. All software & firmware upgrades and updates for storage array, parallel file system and monitoring & management components must be freely available to customer without any additional cost during warranty period
- j) Adding existing Nvidia DGX A100 server to the cluster

Bidder need to provide without any additional cost: -

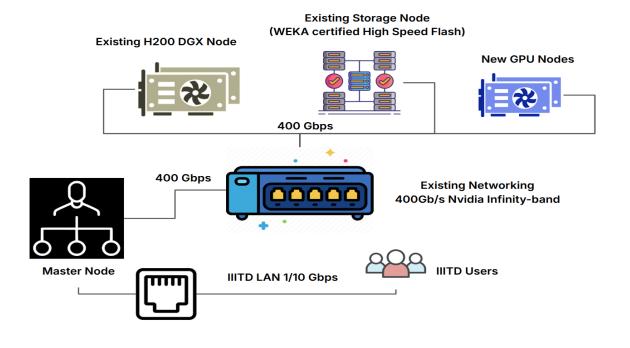
All software updates Software (both major and minor releases), Firmware's, Subscriptions during the warranty period All the licenses quoted shall be perpetual to use

Specification of the GPU Compute Nodes (Qty:02)

S.no	Specifications	Parameter			
1	Processor	Dual Intel Xeon Platinum 5 th Gen processor having at least with 112 cores each and at least 2.0 GHz base clock or Equivalent AMD 5 th Generation 9005 Series processor			
2	Motherboard	Appropriate Motherboard and chipset.			
3	Memory	Minimum of 4TB GB DDR5 ECC RAM			
4	Storage (OS)	2x 1.92 TB NVMe M.2/U.2 SSD in RAID 1 array			
5	GPUs	8 x NVIDIA B200 GPUs that provide 1440GB total GPU memory			
6	NVlink bandwidth	14.4 TB/s aggregate bandwidth			
7	Network 1	4x OSFP ports serving 8x single-port NVIDIA ConnectX-7 VPI>Upto400Gb/sInfiniBand/Ethernet2xdual-portQSFP112NVIDIABlueField-3DPU> Up to 400Gb/s InfiniBand/Ethernet			
8	Network 2	10Gb/sonboardNICwithRJ45100Gb/sdual-portEthernetNICHost baseboard management controller (BMC) with RJ45			
9	I/O ports	At least: 2x/4x USB 2.0/3.0, and,1xVGA/HDMI			
10	Cooling	Appropriate cooling must be provided within the chassis to cool all the parts of the system. There must not be any failures and performance issues due to heating.			
11	Remote Management	Server should have dedicated 1Gbps remote management port. It should support remote power on/off, virtual media, virtual console, virtual KVM, hardware monitoring.			
12	Power Supply	Appropriate energy efficient redundant (N+N) hot swappable power supply to support the configuration and the GPUs.			
13	Form Factor	2U/4U/6U/8U/10U or better			
14	OS Support	RHEL 8/RHEL9, Ubuntu 20.04 LTS Server, Ubuntu server 22.04 LTS			
15	Warranty	5 Years Onsite Comprehensive warranty, NBD support (Parts & Labor)			
16	Note	a). All Cables such as power cables for C-19 socket, GPU power cables, rack mounting kits or any other accessories should be provided.b) Supplied server must show quoted OEM make, model and Serial number of the server in system bios.c) The Offered System must not be End of Life, End of support,			
		End of Sale.			

Server Racks & Cables (Qty: 01)

- 1. The racks should be quoted with smart PDUs and it should be from Netrack, PDUs should show the power being utilized on a panel embedded on it. The rack should have ample space and power sockets to accommodate three such servers asked in specification in a single rack. And there should be at least ten C-19 sockets on each PDU. The depth of the rack should be 1200mm.
- 2. At least Eight or more Cables to connect existing Nvidia DGX A100 server to the cluster.



Connectivity diagram

SLA

- 1. Hardware replacement should be done on the next business day.
- 2. The overall comprehensive onsite warranty for all equipment should be 5 years.
- 3. The troubleshooting support should respond within 2hrs and should be resolved within 4hrs (except for hardware replacement).
- 4. The complete installation must be completed within one month after the delivery.

Minimum Eligibility Requirement:

- Bidder should be OEM/Authorized Partner/service provider of the OEM, here and after referred as bidder. In case the Bidder is an Authorized Partner or Service Provider, a valid Agency-ship/Dealership Certificate (<u>MAF specific to this Tender</u>) to quote on behalf of OEM should also be enclosed along with the technical Bid. <u>A document in support</u> <u>of this must be enclosed.</u> [Bidder should attach as Annexure 1]
- 2 OEM & Authorized Partner should have Sales and support office in India. <u>A self-certified document in support of this must be enclosed</u>. [Bidder should attach as Annexure 2]
- 3 OEM or Authorized Partner should have a service and support office in Delhi NCR. <u>A self-certified document in support of this must be enclosed.</u> [Bidder should attach as Annexure 3]
- 4 The warranty provided by the Bidder should have a back-to-back arrangement with the OEM. <u>The declaration should be part of a Letter of Authorization and signed</u> <u>by a competent authority at the OEM</u>. [Bidder should attach as Annexure 4]
- 5 The Bidder should be ISO 9001 certified. <u>A copy of the ISO Certificate should be</u> <u>enclosed.</u> [Bidder should attach as Annexure 5]
- 6 The Bidder should have a support centre with a minimum of 3 relevant support engineers. <u>A self-certified document in support of this must be enclosed.</u>[Bidder should attach as Annexure 6]
- 7 The bidder should be able to provide 24x7 NOC & Tele support of their own if required by IIITD at agreed terms. <u>A self-certified document in support of this</u> <u>must be</u> <u>enclosed.</u>[Bidder should attach as Annexure 7]
- 8 The Bidder shall provide the Registration number of the firm along with the valid GST number with the PAN Number allotted by the competent authorities. <u>A self-certified</u> <u>document in support of this must be enclosed.</u> [Bidder should attach as Annexure 8]
- 9 The Bidder must not be blacklisted by the Central Government, State Government, or Government of Corporations in India. <u>A certificate or undertaking to this effect</u> <u>must be submitted.</u> [Bidder should attach as Annexure 9]
- 10 If the Bidder is an authorized partner or service provider of an OEM, <u>an undertaking</u> <u>from the OEM is required</u> (please enclose) stating that they would facilitate the Bidder regularly with technology/product updates and extends support for the warranty as well. [Bidder should attach as Annexure 10]
- 11 The Bidder must be responsible for supply, deploy and support the infrastructure. **[Bidder should attach as Annexure 11]**
- 12 If bidder does not meet its SLA, IIITD will put the fine of Rs. 5,000/- per day for the first seven days and @ Rs.8, 000/- per day from 8th day onwards will be levied. **[Bidder should attach as Annexure 12]**

SLA		
Support	Response in 4 hrs.	
Hardware replacement	Next business day	

13 Bidders can seek clarifications, raise technical, financial queries, etc., related to the tender at <u>tenders@iiitd.ac.in</u>. Inquiries may be submitted within a seven-day period following the publication of the bid.

The following information must accompany the financial Bid:

firm/company 2 Name of the contact person and contact details (mobile/telephone number etc.) 3 Name of the Bank and full address 4 Bank Account Number 5 PAN & GSTIN (Attach self-certified copy) 6 Valid self-certified copy of authorization from Bidder 7 Copy of Partnership Deed/ Certificate of registration of the company or any other document evidencing the registration of the Bidder 8 Number of Years of Experience 9 Details of DD towards Tender Fee: EMD: 10 Provide the previous PO's of the same items work executed during the last three years (attested copies of the Orders to be enclosed) 11 List of service centers, nearest location of the support centre. 12 Turnover of the Bidder in the financial years: 2021-22 2022-23 2023-24			
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2021-22 2022-23 2023-24	12	Turnover of the Bidder in the financial years:	
2023-24		6	
		2022-23	
		2023-24	
Please attach CA certified copy of the turnover.		Please attach CA certified copy of the turnover.	

I /We here by certify that the information furnished above is full and correct to the best of my/our knowledge.

> (Signature of the Authorized Signatory) Name: Office Seal.

Date: Place:

TERMS AND CONDITIONS

- 1. The Financial Bid should be valid for a period of not less than 60 days from the date of opening of Bid.
- **2.** Upon placing of the Purchase Order (PO), the successful Bidder is required to submit a performance bank guarantee (PBG) equivalent to 5% of the PO value within 15 days from the date of PO, failing which the Bidder shall be notified as blacklisted. The PBG will be valid for a period of 60 days beyond the stipulated date for cessation of the contract, which is co-terminus with the warranty period. No interest is payable on the PBG.
- **3.** PBG should be in favour of "IIIT-Delhi Collections" payable at New Delhi. PBG will be realized by IIIT-D in case of termination of the contract for unsatisfactory performance and/or non-performance of the contract.
- **4.** The Product to be supplied within a period of 150 days from the date of the Purchase Order by the Institute. If the vendor fails to supply the item as quoted in the Technical & Financial bid, the EMD amount will be forfeited, and the Bidder shall be notified as blacklisted or as deemed appropriate by the Institute. In case of late delivery the penalty will be considered as a fine of 5000/- Rs per day for the first seven days and @ Rs. 8,000/- per day from the 8th day onwards will be levied for a maximum of 15 days. Following this period, the order will be canceled, and the earnest money deposit (EMD) and performance bank guarantee (PBG) amount will be forfeited.
- 5. The Bidder should have their own test and repair facility with certified engineers.
- **6.** 100% payment will be released only on satisfactory installation/services as per the scope of work as certified by the officer in charge of the Institute and after producing the GST invoice. Bidders who do not agree to the above payment terms are requested not to submit their Bid.
- **7.** Payment will be made only after completion of the installation and commissioning. No advance payment will be released.
- **8.** Sealed bid can be sent either by post or by messenger. The responsibility of delivery of the bid lies entirely with the bidder
- **9.** In the event of a dispute, Director IIIT-Delhi shall be the sole arbitrator, and his decision shall be final and binding on both parties.
- **10.** IIIT-Delhi does not bind itself to accept the lowest or any other offer and reserves the right to accept or reject any or all the offers either in full or in part without assigning any reason.
- **11.** In case the Bidder is not able to execute the work as per terms, EMD/PBG shall be forfeited.
- **12.** Bidders should provide details of its support, escalation matrix, certification to this effect from itself. If Bidder fails to meet the SLAs, a fine of 5000/- Rs per day for the first seven days and @ Rs. 8,000/- per day from the 8th day onwards will be levied.
- **13.** The bidder/tenderer shall submit an undertaking on its letter head, duly signed and stamped, that none of the staff, faculty members, relatives, etc. of the Indraprastha Institute of Information Technology-Delhi are related directly or indirectly to any employees, Directors, or Key Managerial Personnel, etc. of the bidder/tenderer. In the event of the IIIT-D coming to know or pointed about the same, the bidder/tenderer undertakes to deposit a sum of Rs.1,00,000/- (Rs. One Lakh only) as a penalty with the Institute. Such bidders/tenderers shall be liable to be blacklisted and announced on the website of IIIT-D.
- 14. Supply, installation and commissioning will be at IIIT-Delhi campus.
- **15.** The selected bidder has to sign an agreement with IIITD on a stamp paper after issue of Purchase/Work order. The agreement is attached Annexure 'Y

	Technical Evaluation - Total 30 Points					
S. No	Particulars	Points System	Max Point s	Points Awarded (Not to be filled by the bidder)	Supportin g Document s Attached	
1	No. of deviations cited in the Technical Specifications Sheet (GPU Rack Server) submitted by the bidder/OEM.	0 10 points 1-3 7 points 4-6 3 points >6 0 point	10			
4	Performance benchmarks as stated under the Application Testing setting described in Annexure-I .	 Passing all the 5 benchmarking criteria and the best* performer (may be multiple) 20 points second best performer (may be multiple) 15 points; third best performer (may be multiple) 10 points fourth best and beyond (may be multiple) 8 points Passing at least 4 out of 5 (3 for Training & 1 for Inference) benchmarking criteria and the best* performer (may be multiple) 7 points; the second best performer (may be multiple) 6 points; the third best and beyond (may be multiple) 5 points Passing at least 3 out of 5 (3 for Training) benchmarking criteria and the best* performer (may be multiple) 4 points; the best* performer (may be multiple) 4 points; the best* performer (may be multiple) 4 points; the second best performer (may be multiple) 3 points; the third best performer and beyond (may be multiple) 2 points Passing fewer than 3 out of 5 benchmarking criteria 0 points. Any of the above benchmarking results that do not meet the quality target as specified in Annexure-I will be assigned o 	20			

Quality and Cost Based Selection Criterion

	points.		
	All of the above benchmarking		
	results should be supported by		
	detailed log files, which will be		
	used for final evaluation.		
	Failure to do so will lead to		
	disqualification.		
Technical Evaluatio	on : Total Points Awarded (A)	30	

* best performer is computed based on average relative improvement.

For the training time benchmark:

• **average_training_time_score** = average_{j=1} to 8}(\delta_t_task_j/spec_t_task_j), where \delta_t_task_j = (spec_t_task_j - achieved_t_task_j), where spec_t_task_j is the training time specified in Annexure-I for the MLPerf Training Benchmarks.

For the inference benchmark:

• **average_inference_time_score** = average_{j=1 to 3}(\delta_ti_task_j/spec_ti_task_j), where \delta_t_task_j = (achieved_ti_task_j - spec_ti_task_j), where spec_ti_task_j is the inference time specified in Annexure-I for the MLPerf Inference Benchmarks.

Final performance score used for identifying best performer and following ranks

• average_score = 0.7*average_training_time_score + 0.3*average_inference_time_score

Presentation Evaluation - Total 20 Points						
5. Particulars No	Points System (Excellent - 2 Good - 1 Poor - 0)	Max Points	Points Awarded (Not to be filled by the bidder)	Supporting Documents Attached		
1 Clarity of the Technical Proposal and overall approach to implementation.		4				
2 Type and quality of User Interface including ease of operation, value added features, and innovative implementation plan to enable scalability and cost efficiency.		4				
3 Project Timelines and lead time for the supply of hardware.		4				
4 Plan for extending software & training support.		4				
5 Proposal for connecting with existing data center infrastructure (already at IIIT-Delhi)		4				
Presentation Evaluation : Total Poin Awarded (B)	ts	20				
Overall Points Awa	arded (A + I	3) - Total 5	o points			

Note: The bidder must score a minimum of 18 points (60%) in Technical Evaluation (A) and a minimum of 10 points (50%) in Presentation Evaluation (B) to qualify. The financial bids, for the bidders who do not qualify will not be opened and therefore, will not be considered as a part of the financial bid evaluation.

Quality score (QS) = (Technical Evaluation + Presentation Evaluation)/ 50^*75 Financial score (FS) = (FP/F) * 25, where FP is the lowest financial bid and F is the financial bid under consideration.

Final score = 75*QS + 25*FS

75% weightage for Quality score and 25% weightage for financial score.

Annexure - I: Performance Benchmarks

The performance benchmarking will be done using the well-accepted MLCommons benchmarking scheme. More details are available at https://mlcommons.org/

Benchmarks required for QCBS:

- 1. MLPerf Training v4.1: There are 4 different benchmarks that need to be reported as shown in Table 1. https://mlcommons.org/benchmarks/training/
- 2. MLPerf Inference v4.1: There is 1 benchmark that need to be reported, as shown in Table 2. https://mlcommons.org/benchmarks/inference-datacenter/
- 3. The aforementioned 5 benchmarks (from 1. and 2. above) need to be reported under the Application Testing setting described below.

Application Testing (System with Compute, Networking and Storage nodes)

Complete system performance in terms of latency must be within 5% of MLPerf Training and Inference benchmarks **when the data is stored on the storage nodes**. For example, for the 'BERT-Large' model training, the training time should be at most 4.2 minutes.

Table 1. MLPerf Training v4.1: Training time (in minutes) requirements for the benchmark tasks descriptions listed below

BERT-Large	rge Llama-2 70B RetinaNet Stable Diffusion-V		Stable Diffusion-V2			
Training Time (min) 8 x B200 GPUs						
4	4 13		20			

Task Description

Benchmark	Dataset	Quality Target	Model	Ver
Object detection	Open Images	34.0% mAP	RetinaNet	v4.1
NLP	Wikipedia 2020/01/01	0.72 Mask-LM accuracy	BERT-large	v4.1
LLM finetuning	SCROLLS GovReport	0.925 cross-entropy loss	Llama 2 70B	v4.1
Image Generation	LAION-400M-filtered	FID<=90 and CLIP>=0.15	Stable Diffusion-V2	v4.1

MLPerf Inference

https://mlcommons.org/benchmarks/inference-datacenter/

Table 2. MLPerf Inference v4.1: Inference time requirements for the benchmark tasks descriptions listed below

Inference Time (Tokens/s) 1 x B200 GPUs Llama-2 70B

11k

Task Description

Task	Model	Dataset	QSL Size	Quality	Server latency	Ver
LLM – Q&A	Llama 2 70B	OpenOrca	24576	ROUGE-1 = 44.4312 ROUGE-2 = 22.0352 ROUGE-L = 28.6162	TTFT: 2s & TPOT: 200ms	v4.1

PROFORMA FOR FINANCIAL BID

S. No.	Details	Qty.	All Inclusive Cost (Please quote in INR only)		
1	Supply and installation of GPU Compute Nodes (As per scope of work)	02			
2	Server Racks	01			
3	Cables	At least eight or more			
		Discount, if any			
		Cotal Amount Rs.			
	 Total Final Cost (in figures) with Installation at IIIT Delhi campus Okhla Phase III, New Delhi. The Bidder may obtain price in Forex(USD) however the quote in financial Bid should be INR only. 				
	*If any documents are required for availing custom duty exemption, the IIITD will provide the same. Please quote price accordingly.				

Please note the price should be quoted for each of the items and should be inclusive of all taxes/charges and installation at IIIT-Delhi.

The discount, if any, should be mentioned herein and nowhere else.

Total Cost (all-inclusive) of quantity mentioned above (in words) at IIIT-Delhi campus:

We accept that the rate quoted above shall remain valid for a period of 60 days from the last date of the tender document, i.e., 60 days from 3^{rd} April 2025. It is certified that the rates quoted above are not more than the rates charged from any Central / State Govt. Deptt. / Institution / GeM.

(Signature and Seal of the Bidder)

Annexure Y

ON NON JUDICIAL STAMP PAPER OF RS 100/-

AN AGREEMENT made on day of two thousand Twenty
One

BETWEEN

(Hereinafter called the contractor, which expression shall include its proprietor, partners, heirs, executors, administrators, legal representatives, successors and assignees) WITH REGISTERED ADDRESS......of the one part

AND

The REGISTRAR Indraprastha Institute of Information Technology Delhi, Okhla Industrial Area Phase III, New Delhi - 110020 (hereinafter called the IIITD, which expression shall include its successors and assignees) of the other part.

Whereas the IIITD had invited Bids <Please write tender name> ; vide its Bid Document No.

, which shall be deemed to be a part of this agreement; FOR THE SCOPE OF WORK/SUPPLY

Whereas the contractor submitted its TENDER Bid dated , a copy of the price bid, submitted by the contractor, is annexed hereto as Annexure;

Whereas the IIITD has accepted the Bid submitted by the contractor, on the terms and conditionsmentioned in the IIITD's said Bid Document and conveyed its acceptance to the contractor; videits letter No.datedCORRESPONDENCE......which shall be deemed to be a part of thisagreement;

Whereas the contractor is agreeable to the terms and conditions mentioned in the IIITD's said Bid document;

Whereas the contractor undertakes to comply with all relevant laws like Contract Labour (Regulation and Abolition) Act, 1970; Employees' State Insurance and Miscellaneous Provisions

Act, 1952; Employees' State Insurance Act, 1948; Minimum Wages Act, 1948; Payment of Bonus Act, 1972; Payment of Wages Act, 1936; Income Tax Act; GST Act etc. and to indemnify the IIITD from the contractor's acts of omission or commission, as regards the compliance with the relevant laws;

Whereas the contractor declares that he/she/it shall own all responsibility for any act of omission or commission, as regards the compliance with the relevant laws;

AND WHEREAS the IIITD is agreeable to make necessary payment to the Contractor, at the rates mentioned in the Annexure annexed hereto and as per the terms and conditions mentioned in the IIITD's said Bid Document;

In WITNESS whereof Shri (name), (designation), the authorized representative of the contractor, for and on behalf of the contractor, has hereunto set his hand and for and on behalf of the IIITD has hereunto set his hand.

(Signature of the authorized representative of the Contractor) Name and designation of the contractor's representative

In the presence of

1

2

(Signature of witnesses with full name and full address)

Registrar for and on behalf of the IIITD

In the presence of

1

2

(Signature of witnesses with full name and full address)