



INDIAN STATISTICAL INSTITUTE

203, Barrackpore Trunk Road
Kolkata 700108

Ref. No.: S&P/2022-23/GPU_CAIML/001

Date: 07 January, 2023

Notice Inviting Expression of Interest

Indian Statistical Institute (ISI) is seeking Expression of Interest (EOI) from reputed companies/manufactures for supply of **Computational GPU System** as per the detailed specification mentioned at Annexure-I. The scope of work includes supply, installation, commissioning and testing of the system.

Serial No.	Description/ Specifications of the Item	Quantity
1	Computational GPU System (Specification as per Annexure-I)	1 No

Last date of submission of proposal: 19th January, 2023

Delivery (including completion of supply, installation, testing & commissioning)	Within 30 days from the date on Purchase Order.
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Date & Time for Post-EoI Interaction:

Suppliers submitting EoI are requested to join the Post-EoI interaction tentatively on **23/24th January, 2023**. The exact date and time will be intimated in due course & suppliers from outside Kolkata can also join the meeting through online platform.

MSME Criteria: An organization having MSME registration of Government of India will get benefit as per MSME relaxation rules.

Preference to Make In India products: Preference shall be given to suppliers as per public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products.

Interested companies/manufactures are requested to submit their expression of Interest for supplying the above mentioned items in the format enclosed as Annexure- II & Annexure-III on or before 19th January, 2023 through e-mail only with a subject line "EoI for Computational GPU System".

Subhajoti Das.

Convener- GPU Purchase Committee
Indian Statistical Institute
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Technical Specifications for Computational GPU System

Technical Specifications for Computational GPU System	
Specification	Description
Performance Benchmark	Spec_Int_2017_rate_base- score >= 320
	OEM must have listed above mentioned benchmark scores in www.spec.org with the same Computational System model or a model from the similar series, with same CPU model configuration as quoted in the bid.
Processor(s)	Two nos. x86 Architecture based Intel/AMD latest Generation processor. Each processor with clock speed of 2.4GHz base frequency, processor with 24 Cores /48 threads. Supports DDR4 3200 or better memory, 36MB cache or higher, with AVX512 instruction set supported natively
No of Processors	Minimum two or more (Total 48 Cores thru 2x processors)
System utility with AI Frameworks Preloaded	1.CPU Optimised Tensor Flow
	2..CPU Optimised Pytorch
	3..CPU Optimised Theano
	4..CPU Optimised Caffe
	5.CPU Optimised Text2speech
	6.CPU Optimised Mxnet
	7.CPU Optimised CuDNN
	8.Accelerator Optimised Tensor Flow
	9.Accelerator Optimised Pytorch
	10.Accelerator Optimised Theano
	11.Accelerator Optimised Caffe
	12.Accelerator Optimised Text2speech
	13. Accelerator Optimised Mxnet
	14. Accelerator Optimised CuDNN
	System must be supplied with OEM or ISV Commercial utility with an access to above mentioned AI/ general frameworks/suites. Details and Datasheet of the utility must be attached with bid documents.
Licensed Node Management S/W and Scheduling Utility	Unified system management, monitoring toolset for configuration, diagnosis and management of the system,
	Node manager with provisioning, monitoring and reporting capabilities
	Support Package and Image based provisioning
	Intuitive web interface to manage and customize the node
	Customizing networks and compute node profiles through GUI
	Customizing compute nodes (upto changing kernel parameter)
	Able to Push configuration changes and updates to the compute nodes without reinstalling and rebooting
	Offered solution must be a licensed s/w stack, issued in the name of Customer Organization, with no limitation based on count of user's user and no. of nodes .
Note : Offered Stack must have been deployed by bidder earlier as well as part of such Solutions to govt organisations. Datasheet of the utility suite must be attached with bid documents.	
Memory	1024GB DDR4 3200 MHz Memory or more, by using 64GB Memory Modules.
RAID Controller	12gbps SAS, SATA RAID Controller Supports RAID levels 0, 1,5,6 & 10 RAID levels with at least 1GB cache.

Accelerator	2 x Accelerators (Nvidia A100 80GB)
Solid State Drives	2 x 3840GB Enterprise SATA SSDs Installed
Hard Disk Drives	4 x 4000GB Enterprise SATA 7.2K rpm HDDs Installed from day one.
HDD bays	HDD - 8 or more SAS & SATA Hard drives/ SSDs, including support for 4 x NVMe drives and necessary controller for the connectivity must be on board. A secondary storage enclosure is allowed to be offered to meet the storage requirement
I/O slots	6 × PCIe 4.0x 16 and 1PCIe 4.0x 4 or More Expansion Slots
Graphics controller	Integrated/Add-on Graphics. A dedicated video port available
Audio Controller	System must have onboard / Add on HD Audio Controller and Ports.
Ethernet ports	2 × 10 Gbps Ethernet port with (PXE) boot supports.
Ports	4 USB ports , 1 VGA/ graphics port, 1 HD Audio, 1 COM Ports
Chipset	Compatible CHIPSET
Server management	IPMI 2.0 Support with KVM and Media over LAN features. Must include all required licenses, if required for using these features. Out of band Management Capabilities, Stack with a full IPMI implementation, Hardware Health monitor, Remote power control, Console Redirection with multi language support HTML web Console Redirection. Serial Over LAN, Media Redirection , CD/ DVD redirection , USB 2.0 or 3.0 -based drive redirection with support for USB Key , VLAN functionality supports Reading Log Events, SMTP Support, Sensor read methodology, Email Alerting methodology, User management functionality with SSL based security , Multi User Permission Levels, Multi User Profiles, LDAP Support, Windows Active Directory and Open LDAP support, Common Information Methodology with class handling , Core Support with creation of class , instances and workability with instances. WSMAN Support with common information model support. Provision for Getting, discovering, enumeration and subscribing features. Product datasheet/manual/manual must confirm the compliance.
Power supplies	Redundant (N+N) with,80 Plus Titanium Certified efficient power supplies. Secondary enclosures , if offered any, must also have 80 Plus Titanium certified power supplies.
Cooling system	The system should come with proper cooling mechanism and should not suffer from heating problem
Operating System	64-bit CentOS Preloaded.
OS Certifications	System must be RHEL, SUSE, and Microsoft Windows certified (certificate copy must be to attach with bid)
Warranty	3 years onsite warranty by OEM / Bidder. Physical on-site warranty services including visits by technical experts of Bidder or OEM for maintenance and technical support whenever needed.
Form Factor	Tower – Pedestal System , with Rack Mount capabilities with up to 4U or lesser (including all units).
Regulatory Compliance	<ol style="list-style-type: none"> 1. Quoted Server model should be certified for NVIDIA A100 80GB GPU Cards and quoted server model shall be listed model under NVIDIA Qualified Server Catalogue on NVIDIA website. 2. Bidder must not be banned by any Government organization in India and put on holiday period for >3 months in the past. Declaration must be attached with bid documents.

Techno Commercial Details

S.N.	Technical Requirements	Details
1.	Supplier's information form	Name:..... Address:..... Contact No:..... Email id:.....
2.	Details of the offered product.	
3.	Manufacturer's authorization form <i>[Please tick on the appropriate option]</i>	Available/ Not Available
4.	Past Performance of the vendor in terms of supply of similar products. Purchase Order/ Work Completion Certificate to be enclosed.	
5.	Deviation of the offered product from specification mentioned at Annexure-I (if any)	
6 (a)	<u>Techno-commercial Capability:</u> Average Annual Turnover for last 3 FY (2019-20, 2020-21, 2021-22)	
6 (b)	Income Tax Registration Certificate/ PAN No. and latest Income Tax Clearance Certificate	
7.	Details of Local service centers (Nearest place to the Purchaser)	
8	Vendor eligible for MSME exemption	Yes/ No
9	Public Procurement (Preference to Make in India) Order, 2017 <i>[Please tick on the appropriate option]</i>	(a) Class-I Supplier (b) Class-II supplier (c) Non Local Supplier
10	Registration on the Govt. e-Marketplace (GeM) portal. <i>[Please tick on the appropriate option]</i>	Yes/ No

Documentary evidence in support of the details submitted above will be required at the time of submission of bid against Notice Inviting Tender (NIT).

(Seal & Signature of the Supplier)

Commercial Details

PRICE SCHEDULE FOR GOODS BEING OFFERED

Name of the Supplier _____

EoI Reference No. _____

Sl. No.	Description/ Part No./ Make Model	Quantity	Unit Price (in Rupees)	Total Amount (in Rupees)
1.				
IGST rate/ Duties/taxes/ clearance charges				
Additional Warranty Charges				
Comprehensive Annual Maintenance Charges (provide year-wise breakup)				

Comprehensive Annual Maintenance Charges (Provide year wise break up):

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(Seal & Signature of the Supplier)