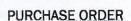


सीएसआईआर - केन्द्रीय काँच एवं सिरामिक अनुसंधान संस्थान

196, राजा एस सी मल्लिक रोड, कोलकाता - 700 032, भारत





M/s Mega Networks Pvt. Ltd.	P.O. No.	P/NC/67/IT/S0/OTE/23-24(Re2)
Unit #7, Bishen Udyog, Jain Temple Marg,	Date	09/06/2025
Sarvoday Nagar, Mulund(W), Mumbai-400080	Subject	Purchase Order
E-mail: info@meganet1.com		

References:

- 1) CSIR-CGCRI Bid Document No. P/NC/67/IT/SO/OTE/23-24(Re2) Portal Tender ID: 2025_CSIR_222453_1 dated 17/01/2025].
- 2) Your Quotation offer Reference No. Nil dt. 01/02/2025.
- 3) All communications exchanged between you and CSIR-CGCRI till date.

Dear Sir,

I am directed to request you to kindly supply, install & commission the following equipment as per the enclosed terms & conditions:-

SI. No	Part No.	Part No. Description		Unit price in INR	Total Price in INR
	-	Master and Storage Node FusionStor Invento i6308 Series	1 No.		
	-	Processor Details		22,05,990.00	22,05,990.00
		Master node should have 16 AMD EPYC Milan CPU Cores or higher. The master node have minimum clock speed of 3.0 GHz or better. The processors Must have Native support of AVX2 instructions or better. Along with CPU specifications, the node should have the following configurations			
		Memory details 256GB DDR4 ECC RAM or higher (32 GB each)	08		
	-	960 GB Enterprise SATA SSD configured in RAID1	02		
1	-	20TB 7.2K RPM Enterprise SATA Hard drive configured in RAID5 with one hot spare.	06		
	-	1 GB RAID Card supporting RAID Levels 0, 1,5,6 and 10	01		
	-	1G Ethernet Ports	02		
	-	10G Copper Ethernet Ports	01		
	-	IPMI 2.0 or equivalent with KVM and media over LAN features	01		1/
	-	Form factor - 2U or better full width server form factor with sliding rack mount kit and peripherals			
	-	80 Plus platinum or better redundant power supply with IEC C13 to IEC C14 cables			J W
2	-	Computer Nodes FusionStor Invento i6313 Series	3 Nos.	Inclusive	Inclusive
2		Processor Details			

		AMD EPYC Milan or higher CPU cores with a minimum clock speed of 2.45 GHz or better. The			
		processors Must have Native support of AVX2 instructions or better. Each node should have a			
	Section 1	memory of minimum 2 GB/Core DDR4 ECC RAM or			
		better in a fully balanced configuration with			
		populating all DIMM slots to its fully available			
		bandwidth. RAM speed should be the maximum			
	No.	memory speed supported by the quoted CPUs. The bidders should submit the linpack of a single node			
		as a part of technical bid in CD/DVD and the bidders			
		should run linpack across all nodes and submit the			
		results as a part of commissioning. Along with the			
		CPU ratings, the nodes should have the following			
		configurations or better. Memory Details			
	-				
		480 GB Enterprise M.2/SATA SSD for operating System	1		
		4 TB Enterprise SATA for local scratch	1		
		1 G Ethernet Ports			
		10 G Network adapter for the switch getting quoted	2		
	-	on SI. No 3 Networking/interconnect	1		
	N# -	IPMI 2.0 or equivalent with KVM and media over			
		LAN features			
	-	Form factor - 2U or better full width server form			
		factor with sliding rack mount kit and peripherals 80 Plus platinum or better dual power supply with			
	-	required IEC C13 to IEC C14 cables			
	•	Networking / Interconnect	Se 98	Inclusive	Inclusive
		16 Ports fully non-blocking 1 G Copper Ethernet	1		
3	-	Switch with required Ethernet cables for			
		management connectivity. 16 Ports fully non-blocking 10 G Ethernet Switch with			
	-	required cables for compute nodes connectivity.	1		
		Nvidia RTX A6000 based Intel Server		6,03,000.00	6,03,000.00
	-	Intel Xeon scalable 3 rd gen Silver 16 Cores, 2.4 GHz	1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	-	128 GB ECC DDR4 3200MHz RAM or higher (32 GB	4		
		each)	1		
	-	480 GB Enterprise M.2/SATA SSD for Operating System	1		
	-	4 TB Enterprise SATA HDD for data and local scratch	1		
4	_	Nvidia RTX A6000 48 GB Quadro GPU or higher	1		
-		1 G Ethernet ports	2		
	-	IPMI 2.0 or equivalent with KVM and media over	1		
		LAN features			
	-	80 Plus platinum or better power supply with required IEC C13 to IEC C14 cables.			
		Form factor – Tower convertible 5U or better full			
	-	width server form factor with sliding rack mount kit			
		and peripherals			
	-	Fully Automated System Provisioning		Inclusive	Inclusive
1		Operating System - Rocky Linux latest stable			
5	-	version			

	* 11 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Scheduler - SLURM/Open PBS (Queues/partitions needs to be configured according to user requirements)			
	-	Monitoring/Admin tools - Ganglia, Nagios, LDAP, PDSH, PDCP, automated emails, usage report generations, etc.,			
6	-	Desktop		Inclusive	Inclusive
	-	All in one Desktop, 13th Gen Intel Core i7 (or higher), 16GB DDR4 RAM, MX550 2 GB GDDR6, 1TB SSD, 27" FHD WVA Touch, Win11+MS Office 21	1	-	<u>-</u>
	-	27" HD LED Monitor with USB Keyboard and Mouse	1		
	1			Total price in INR	28,08,990.00
				Add: GST@18%	5,05,618.00
		F.O.R. CG	CRI Ko	Ikata price in INR	33,14,608.00

The Specifications of the goods and other services shall strictly conform to those laid down in your offer No. Nil dated 01/02/2025 and all communications exchanged between you and CSIR-CGCRI till date. Further you are also requested to note the following:

S. No	Parameters	Description
1	Installation, commissioning and integration:	Supplier should install and accommodate the entire solution in a 42 U rack available and existing at CSIR-CGCRI. The supplier shall install and configure all required hardware and software suites, including but not limited to racking and stacking, Cluster networking, Configuring all nodes, Execution and submission of jobs, Installation of compilers (with flags for optimization) and applications, Configuration of environment variables and license utility configuration. Entire installation should be done at the local site where the existing 42U rack is available. Remote control of network will not be given till the commissioning of the HPCC. All the hardware and software deployment will be in supplier's scope of work.
		The entire computer nodes must be factory integrated, tested, validated and certified in the supplier site before supply. No onsite or local assembling of the system at CSIR-CGCRI site is allowed. Only rack-mounting, OS and application installation is allowed on-site.
2	Software upgrade and software support:	During warranty, if OS/software upgrade is needed due to functionality requirements, the supplier should reinstall/Upgrade the OS and clustering tools and benchmark the cluster and recommission the system at any point of time. Open source HPC software required by the user and full software support needs to be provided till the end of warranty period.
3	Cabling	All LAN cabling should be done at or near the 42 U rack as per the length required using CAT6. All cabling should be done to provide efficient air circulation and should not block any air circulation behind the servers. Different colors of cable for computing and management should be used.



4	Future expansion	The supplier needs to keep provision for future expansion or upgrade of the cluster like adding additional nodes, GPUs to the existing setup.	
5	Model number and operational guideline	Provide all model numbers of master nodes, compute nodes, hybrid nodes, storage nodes, Network switch model, Accelerator card details (if any), maximum number of port in IB/OPA switch (if any) and how many ports populated. The OEM part code of all the equipment / devices proposed should be provided with the technical bid.	
		Supplier should provide the detailed operational guideline clearly explaining how to use the cluster.	
		During maintenance supplier must notify the user in advance and ensure proper handling of the user's data.	
6	Acceptance test:	Part of testing, the supplier should run the user provided codes and provide the satisfactory results of the same. Apart from this, the supplier has to run and submit Linpack, Lapack, Scalapack benchmark results to the CSIR-CGCRI.	
		Part of the acceptance test, the CSIR-CGCRI team will check all the software and will cross-check benchmarking and all other tests based on our input files in the fully offered solution for at least 4 days.	
7	Training:	On-site training after installation and commissioning: 4 persons or higher at CGCRI, including - tasks such as user/node management, installation/upgrade, queuing system management, job submission (single, parallel and multithread jobs in m multiple cpu), and file system management with documentation.	
8	Service support:	t: One trained personnel should be available to help remotely (9.00 AM to 6.00 PM, 5 Days a week) or onsite for technical support for administration/maintenance (both software and hardware levels) of HPC during warranty period.	
9	Comprehensive Warranty:	5 years covering onsite comprehensive advance Hardware replacement and software support. All warranty and support must be serviced directly by the OEM or should be from an authorized System Integrator Partner who is authorized to Support the product quoted. There should have a Single Point of Contact (SPOC) between CSIR-CGCRI and the supplier who is responsible for all issues between them. Faulty parts should be replaced by NBD (Next Business Day) during warranty period.	

Your GEM ID as certified by you is 5F7A180000092028.

This Contract/Purchase Order shall be governed by:(1) General Conditions of Contract and Special Conditions of Contract as detailed in the Bid Document.

Attention of the supplier is also invited to the terms and conditions mentioned in this Purchase Order.

The Order Acknowledgement must be submitted immediately and in any case, within 14 days from the date of placement of this Purchase Order failing which, the order will be deemed as cancelled.

You are requested to return the duplicate copy of this Purchase Order, duly signed and stamped, as a token of your acceptance to this order.

Yours faithfully,

(Bodhisattwa Dhar) Stores & Purchase Officer

For & on behalf of the Council of Scientific & Industrial Research

Enclosures:

- 1. Terms & Conditions.
- 2. Format for Performance Bank Guarantee.
- 3. Format for Acceptance Certificate.

बोधिस्वत धरं / Bodhisattwa Dhar भण्डार एवं क्रय अधिकारी / Stores & Purchase Officer सीएसआईआर-केन्द्रीय कांच एवं सिरामिक अनुसंघान संस्थान CSIR-CENTRAL GLASS & CERAMIC RESEARCH INSTITUTE 196, राजा एस. सी. मल्लिक रोड / 196, Raja S.C. Mullick Road कोलकाता / Kolkata-700 032

Explanations:The following words and expressions used in this Purchase Order shall have the meanings hereby assigned to them:

Purchaser	means CSIR-CENTRAL GLASS & CERAMIC RESEARCH INSTITUTE, 196 RAJA S.C. MULLICK ROAD, KOLKATA 700 032, INDIA.
Manufacturer	means M/s. Fusionstor Technologies Pvt. Ltd., Mumbai, India.
Supplier	means M/s. Mega Networks Pvt. Ltd., Mumbai, India

1.	Delivery Term	F.O.R. CSIR-CGCRI, Kolkata.	
2.	Purchase Order Value / Contract Price	INR 33,14,608.00 [INR Thirty Three Lakhs Fourteen Thousand Six Hundred & Eight Only].	
3.	A Bodhisatiwa Dhar anii / Siores & Purchace Office ana pei Reilipe arpinin diver- se CERAMIC RESEARCH INSTITUT PRE TRE 198, Reis S.C. Mullick Ros	The payment shall be made in Indian Rupees, as follows: Phase I: 80% of Basic Price plus 100% GST shall be released by RTGS on receipt of all the ordered goods in good condition and inspection at site(final destination). At the time of taking delivery of the ordered goods, Purchaser reserves the right to ask for a joint inspection in presence of Suppliers representatives for verification. Phase II: Balance 20% payment shall be released by RTGS within 30 days of	
	i / Kolkata-790 032 11 C	acceptance of supply of all ordered items by CGCRI including completion of installation of the supplied items and completion of all contractual obligations to the entire satisfaction of the buyer against Tax Invoice and subject to the submission of Performance Bank Guarantee. Note: All payments due under the Contract shall be paid after deduction of statutory levies at source (like ESIC, Income Tax, etc.), wherever applicable.	
4.	Performance Security	Within 21 days of issue of this Purchase Order, Supplier shall furnish a Performance Security for 3 % of the order value / invoice value. Other aspects of the Performance Security clause are detailed at GCC Clause 2.13 read with the relevant SCC.	
5.	Goods & Service Tax (GST) GST @ 18% on all items is included in Purchase Order value. CSIR-CGCRI GST No.: 19AAATC2716R1ZC Not applicable. Delivery period [For supply and installation of the ordered goods] The Supplier shall complete entire services including delivery, install commission & training of the ordered equipment within 100 days from the of issue of Purchase Order. O5 (five) years comprehensive warranty from the date of Installating the ordered equipment within 100 days from the		
6.			
7.			
8.			
9.	The Insurance in respect of goods to cover all risks upto final destination (CCCRI, Kolkata) shall be borne by Supplier at its own costs.		
10	Installation & Commissioning	To be done by Supplier's engineers at delivery site within the delivery period mentioned above at Serial No. 7.	

11 Training	Onsite training for 01 (one) working day for 04 (four) persons of CSIR-CGCRI during installation period.
12 LD Clause	The penalty shall @ (0.5%) point five percent per week or subject to a maximum of @ (10%) ten percent of Order Value for late delivery and towards delay in Installation & Commissioning including all contractual obligations beyond contractual deadlines.

Yours faithfully,

(Bodhisattwa Dhar)
Stores & Purchase Officer
For & on behalf of the Council of Scientific & Industrial Research

बोधिस्वत्त धर / Bodhisattwa Dhar भण्डार एवं क्रय अधिकारी / Stores & Purchase Officer सीएर आईआर-केन्द्रीय काँच एवं सिरामिक अनुसंधान संस्थान CSIR-CENTRAL GLASS & CERAMIC RESEARCH INSTITUTE 196, राजा एस. सी. मल्लिक रोड / 196, Raja S.C. Mullick Road कोलकाता / Kolkata-700 032

PERFORMANCE SECURITY FORM

MODEL BANK GUARANTEE FORMAT FOR PERFORMANCE SECURITY

	10,
	WHEREAS
	AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognized by you for the sum specified therein as security for compliance with its obligations in accordance with the contract;
	AND WHEREAS we have agreed to give the supplier such a bank guarantee;
THE STU	NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total of
	We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand.
	We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.
	This guarantee shall be valid until the
	Name and designation of the officer
	Seal, Name & Address of the Issuing Branch of the Bank
	Codi, Marilo & Marioco di ara località biarrari di ara barri.

Note: Whenever, the bidder chooses to submit the Performance Security in the form of Bank Guarantee, then he should advise the banker issuing the Bank Guarantee to immediately send by Registered Post (A.D.) an unstamped duplicate copy of the Guarantee directly to the Purchaser with a covering letter to compare with the original BG for the correctness, genuineness, etc.

ACCEPTANCE CERTIFICATE FORM

(On company letterhead)

		(On C	Ompany letternead)			
o			Dated:			
/s.						
			e of commissioning of equipment			
L.	This is to o	certify that the equipment as de e standard and special accesso	etailed below has/have been received in good condition alor ories (subject to remarks in Para 2). The same has been			
	installed a	ind commissioned.				
	Contract N	lo	Date			
	Description	n of the equipment				
	Name of t	he consignee				
	Schedule	d date of delivery of the consign	ment to the Lab./Instts			
	Actual da	e of receipt of consignment by	the Lab./Instts			
	Schedule	d date for completion of installa	ation/commissioning			
	Training S	tarting Date				
	Names of	People Trained	commissioning			
	Actual da	te of completion of installation/	CONTINISSIONINE			
	Penalty fo	or late delivery (at Lab./Instts. le or late installation (at Lab./Instt	s lovel 7			
	Penalty fo	or late installation (at Lab./ insti	S. 16VC1 \			
etai	ls of access	ories/items not yet supplied an	d recoveries to be made on that account:			
	SI. No.	Descri	ption Amount to be recovered			
2.	The acceptance test has been done to our entire satisfaction. The supplier has fulfilled his contract obligations satisfactorily					
	The supp	olier has failed to fulfill his contr	or ractual obligations with regard to the following:			
	(a) .					
	(b) .					
	(c) .					
	(d)					
ndio	The ame	ount of recovery on account o No. 3.	f failure of the supplier to meet his contractual obligation			
or s	Supplier		For Purchaser			
ide	ature		Signature			
			Name			
			Designation			
		n	Name of the Lab/Instt			
Date	e		Date			
Date	e		Date			