TATA INSTITUTE OF FUNDAMENTAL RESEARCH

Plot No.36/P, Gopanpally Village, Serilingampally Mandal, Ranga Reddy District. Hyderabad - 500 107, Telangana, India.

Telephone: +91-40-2020 3020 Website: <u>www.tifrh.res.in</u> Email: <u>purchasegroup@tifrh.res.in</u> jrathna@tifrh.res.in

Date: 11-03-2020

Notice Inviting Tender cum Tender Document (Two Part Public Tender) for the following items:

Supply, Installation and Commissioning of GPU based High Performance Computing Cluster for TIFR Hyderabad.

As per our technical specifications: Qty. – 1 No.

Public Tender No.	TFR/PD/IC19-28/19028
Published on	12-03-2020
Tender Fees	For Indian Supplier - Rs. 500/- For Foreign Supplier-USD 100
	For Indian Supplier - Rs. 1,16,000/-
EMD	For Foreign Supplier - USD 1620
Estimated Cost (Estimated cost upto TIFR, Hyderabad inclusive of all applicable charges)	Rs. 58 Lakhs
Pre-Bid Meeting	17-03-2020 at 11.00 AM
Last Date for Submission of Bid	06-04-2020 upto 13.00 Hrs.
Date of Opening Bids(Part A)	06-04-2020 at 16.00 Hrs.

Both Technical Bid (Part A) and Financial Bid (Part B) to be submitted within the due date and time in separate envelopes and marked on top as Part A and Part B. These two sealed envelopes should be further put in one Master Envelope super scribed with the Tender No., Due Date in Bold Letters.

Please see attached sheet for conditions of tender.

Note: All future corrigendum/addendum will be published in TIFR Hyderabad website only. All prospective bidders are requested to visit our website regularly for any such updates/Corrigendum/Addendum.

ADMINISTRATIVE OFFICER (PURCHASE SECTION) TIFR, HYDERABAD

SCOPE OF SUPPLY

Annexure - A

Technical Specifications for Supply, Installation and Commissioning of GPU based High Performance Computing Cluster.

Technical pre-qualification for the bidders

Mandatory requirements	for a bidder to o	ualify as a partic	ipant in this tender:
rianaacory requirements	ioi a braaci co e	adding ab a partie	ipane m emb conder.

s.no	Technical pre-qualification criteria	Compliance Yes/No	Remarks
1.	The bidder should have executed at least three projects using architecture and technologies similar to those being proposed in their quotation against this tender. In addition, the following condition should also be satisfied.		
	 At least one installation of minimum 20 TF (Tera Flops) or At least two installations of 15 TF or At least three installations of 10 TF 		
	Note: All the mentioned peak value should be CPU only sustained peak performance ratings, which should be a cluster (more than one node with a interconnect). GPU Servers and Single servers will not be considered.		
	Purchase order copies of the same must be submitted with the technical bid. The OEM or partner should have successfully executed projects at Government/ Public/ Private Research organizations /institutions performing scientific computation using High Performance Computing Clusters across the country within the last five years.		
	Purchase order with final commissioning report with the mention of compute capacity and architecture details duly signed by customer should be submitted with the technical bid.		

-		
2.	The Bidder should have the experience in	
	building HPC Clusters in the global HPC	
	Market since last 3 years with a logistics	
	facility for the bidding OEM in India for easy	
	access and availability of spares and to ensure	
	the proper back-end support for smooth	
	execution and post-sale support operations.	
	Documentary proofs should be attached.	
3.	All warranty and support must be serviced	
	directly by the OEM or should be from an	
	authorized System Integrator Partner who is	
	authorize to Support the product quoted.	
	TIFR-H requires that there be a Single Point	
	Of Contact (SPOC) from OEM/Vendor who is	
	responsible for all issues between TIFR-H and	
	the OEM.	
4.	Bidder should be either an Original	
	Equipment Manufacturer (OEM) or should be	
	authorized System Integrator Partner having	
	back to back Support Agreement with the	
	OEM. Manufacturer's Authorization Form	
	(MAF) for participating in this tender is	
	mandatory for bidders and should be attached	
	along with technical bid. The Bidder	
	participating in the tender process should	
	give the MAF confirming the bidder's	
	authorization to participate in the tender with	
	tender number and details.	
5.	Hardware and software warranty support	
5.	requests to be handled and serviced directly	
	by OEM/Bidder. OEM/Bidder should have	
	required critical spares at local service center.	
6.	OEM/Bidder should have a local service	
0.	center within the radius of 1000 Km from	
	Hyderabad. The OEM/Vendor should have	
	service engineers stationed at Hyderabad in	
7	the relevant field of quoted item.	
7.	The OEM/Bidder must have an India based	
	support infrastructure by maintaining a local	
	spares depot in the country. This is to ensure	
	immediate delivery of spare parts from OEM	
	to its channel partner/system integrator.	
8.	The OEM/Bidder should have valid ISO	
	certification. Please attach a copy of the	

	certificate.	
9.	The complete proposed solution must have all encompassing comprehensive onsite advance replacement warranty of 5 years duration which includes hardware, software, firmware, software updates, etc., If the hardware replacement process takes more than two days, the bidder/OEM should provide a standby hardware till the replacement is made.	
10.	Products offered should have official OEM support (No EOL for three years) for the next three years from the date of acceptance of installation.	
11.	The entire HPCC solution proposed by the bidder/OEM should be offered with lowest power consumption for the given specification in the tender.	
12.	All quotations submitted must follow the prescribed format for technical compliance as in the document below. Failure to do will result in the quotation being summarily rejected. Soft copy of the technical bid document in excel format should also be submitted. Soft Copy should be provided in a read only format with CD/DVD.	
13.	One bidder can propose only one technical solution and the price bid for the same should be submitted. Quoting multiple technical solutions with multiple price bids will result in the quotation being summarily rejected.	

Technical Qualifying Criteria:

The Bidders can use any single precision NVIDIA GPUs (Preferably RTX Nvidia GeForce 2080 Ti or better) to achieve a minimum 130 ns/day on the user given gromacs code on a single node using single GPU. There is no restriction on the use of ECC, NV-Link, NVML, to achieve the required results. Bidders should run minimum four concurrent simulations using four independent GPUs on the proposed single node with the given benchmark. The benchmarking code and running instructions be will available the in following link. (https://cc.tifrh.res.in/webdata/documents/events/benchmarks/gmxbm.zip). These results have to be submitted along with the technical bid. The bidders have to reproduce the same results with eight concurrent simulation runs having eight GPUs

on the same node as a part of the commissioning acceptance test. During the acceptance test, the maximum allowable deviation from the mentioned results should be less than 2% only. Bidders should run these codes on the machines and architecture, which they are proposing or similar to which they are proposing. Bidders should provide access for the user for verification, where they have ran the benchmark codes for the technical bids, if necessary. Along with the technical bids, benchmark results should be provided in CD/DVDs only. Hard copies or pen drives are not allowed.

Scope of Work

Annexure – B

Scope of work includes the following:

Supply, Installation and Commissioning of a High Performance Computing Cluster (HPCC) as per the specifications below:

Technical Specifications

Specifications of the High Performance Computing cluster

Mandatory Clause

- a) 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. TIFR-H requires that there be a Single Point of Contact (SPOC) from OEM/Bidder who is responsible for all issues between TIFR-H and the OEM.
- b) All the hardware and software deployment will be in vendor's scope of work and vendors need to install open source software required by the end user at the time of deployment.
- c) The Compute nodes should be in denser rack form factor designed for cluster solution.
- d) The entire computer nodes must be factory integrated, tested, validated and certified in the bidder/OEM site. No on-site or local assembling of the system at TIFR-H site is allowed. Only rack-mounting, OS and application installation is allowed on-site.

Mandatory items					
Computer Hardware		Make/Model/Remark to be filled by the Vendor			
S.No	Description	Qty	Make & Model	Compliance Yes/No	Remarks
1 Master + Storage Node 1					
Maste	or node should have minimum	16 Into	Yoon C	uscade/AMD F	DVC Rome

Master node should have minimum 16 Intel Xeon Cascade/AMD EPYC Rome CPU Cores with minimum clock speed of 2.1 GHz or better with sustained real time peak of 0.64 Teraflops (TF) or better having minimum 12 GB DDR4 ECC RAM per core or better in a fully balanced configuration. Along with CPUs, the node should have the following configurations or better

|--|

	RAM Details			
	2 x 960 GB Enterprise SATA SSD configured in RAID 1			
	12 x 10 TB 7.2K RPM Enterprise SATA Hard drive configured in RAID 6 with one hot spare.			
	1x2GBRAIDCardsupportingRAIDLevels0,1,5,6 and 10.			
	2 x 1 G Ethernet Ports			
	1 x 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 redundant power supply with IEC C13 to IEC C14 cables			
2	Compute Nodes	3		

Each compute nodes should have minimum 40 or better Intel Xeon Cascade lake/AMD EPYC Rome CPU cores with a minimum clock speed of 2.5 GHz having a real time sustained peak of 2.02 TF or better having minimum 2 GB DDR4 ECC RAM per CPU core or better in a fully balanced configuration. The nodes should have the capability to accommodate minimum 10 Double width active GPUs. Along with the CPUs, the node should have the following configurations or better

CPU Details		
RAM Details		
1 x 120 GB Enterprise SATA SSD for operating System		
8 x Nvidia GeForce 11 GB		

	DTV 2000 T: h-H			
	RTX 2080 Ti or better. Provision for adding two			
	more similar GPUs should be			
	there.			
	Note: Quote only with blower			
	model active GPUs with			
	following dimensions or			
	better			
	Card Dimensions 1.58" ×			
	10.59" × 4.41", Dual-Slot.			
	Box Dimensions 8.35" x			
	14.68" x 3.7"			
	Please attach necessary			
	datasheet			
	2 x 1 G Ethernet Ports			
	1 x IPMI 2.0 or equivalent			
	with KVM and media over			
	LAN features			
	Form factor - 2U or better			
	with half width servers in a			
	chassis with sliding rack			
	mount kit and peripherals			
	80 Plus platinum or better			
	redundant power supply			
	with IEC C13 to IEC C14			
	cables			
3	Networking/Interconnect -	2		
	24 Ports fully non blocking			
	1 G Copper Ethernet Switch with required Ethernet			
	cables for computer and			
	management connectivity			
4	Fully Automated System	1		
	Provisioning			
	Operating System -			
	CentOS/Debian latest stable			

	version			
	Clustering Tool kit - Preferably TrinityX or XCAT open source			
	Scheduler - SLURM (partitions needs to be configured according to user requirements)			
	Monitoring/Admin tools - Ganglia, Nagios, Gold accounting, PDSH, PDCP, automated emails, usage report generations, etc.,			
5	Software - Open Source HPC software required by the end user should be installed. Software support should be provided till the end of warranty period			
	Benchmarking - The supplier should run the user provided codes mentioned on technical qualifying criteria and provide the results of the same.			
6 6.1	WarrantyandSupportFiveyearsonsitecomprehensiveadvanceHardwarereplacementwarrantyandsoftwaresupport	5 years		

If TIFR-H requests for OS/software	
upgrade due to their functionality	
requirements, the bidder/OEM	
should reinstall/Upgrade the OS	
and clustering tools and	
benchmark the cluster and re-	
commission the HPCC at any point	

of time during the warranty period	
at no cost to purchaser.	
Training for general system	
administration with	
documentation including tasks	
such as user/node management,	
installation/upgrade, queuing	
system management and file	
system management.	
One L3 level trained personnel	
should be available to help either	
remotely (8.00 AM to 5.00 PM, 6	
Days a week) or NBD onsite for	
technical support for	
administration/maintenance (both	
software and hardware levels) of	
HPC.	
OEM/Vendor should not change	
the support engineers assigned to	
this any tickets before the ticket	
completion without TIFR-H IT in-	
charge knowledge.	
Vendor/OEM engineer should visit	
TIFR-H every 120 days and carry	
out proper hardware & software	
health check of HPC cluster and	
submit report of the same to the IT	
in-charge.	
Vendor will be responsible to	
protect user data during any	
maintenance in the warranty	
period.	
The OEM/Bidder should have	
automated ticketing system with a	
dedicated helpdesk email account	
which is regularly monitored and it	
should be available to TIFR-H	
users.	
An escalation matrix for issues not	
resolved by the support personnel,	
with an expected time line, should	
be clearly mentioned.	
The person should have enough	
experience to handle cluster	

	hardware and software		
	troubleshooting to resolve the		
	problems faced by the users. This		
	should include fine tuning of the		
	scheduler's various capabilities.		
	The person should be able to		
	produce required status report of		
	the cluster when asked using the		
	C		
	software installed in the cluster to		
	manage it.		
	Faulty parts should be replaced by		
	NBD (Next Business Day).		
6.2	Documentation		
	• Step by step installation		
	guide for node configuration		
	from scratch.		
	• When handing over the		
	cluster the vendor should		
	provide the full design of the		
	cluster installation including		
	the electric connections,		
	network connections, user		
	manual clearly explaining how		
	to use the cluster.		
6.3	Terms and conditions:		
	Any item not specifically		
	mentioned in the specification but		
	is required for successful		
	implementation of the HPC		
	*		
	solution (in the opinion of the		
	vendor) must be brought to our		
	notice and quoted accordingly.		
	The entire solution should fit in a		
	19" standard IT Rack.		
	At the time of installation, if it is		
	found that some additional		
	hardware or software items are		
	required to meet the operational		
	requirements of the configuration,		
	but not included in the vendor's		
	original list of deliverables, the		
	vendor shall supply such items to		
	ensure the completeness of the		
	I choure the completeness of the		

configuration at no extra cost.	
TIFR-H reserves the right to	
increase or decrease the quantity	
of the items.	
In case of future	
expansion/upgrade of the the	
quoted clusters, the Bidders	
should cooperate and provide	
support to TIFR-H. The	
expansion or upgrade of the	
cluster like adding additional	
_	
nodes, GPUs to the existing	
setup supplied by the bidder.	
Delivery period should be within 8	
weeks from the date of purchase	
order. Once delivered to onsite, the	
installation, commissioning and	
acceptance testing period will be	
within 2 weeks from the date of	
delivery of equipment.	
The vendor immediately after the	
award of the work shall prepare a	
detailed plan of installation as	
proposed to be followed by	
placement of the equipment, etc.	
All vendors participating in this	
tender must visit the TIFR-H site	
for a complete site survey and also	
meet with the TIFR-H IT team in	
the pre-bid meeting for detailed	
discussions and clarifications, if	
any.	
The installation should be done by	
trained engineers for HPCC stack	
followed by comprehensive user	
training.	
Installation and integration of all	
supplied hardware and software	
shall be done by the vendor. The	
vendor shall install and configure	
all required hardware and	
software suites, including but not	
limited to racking and stacking,	
Cluster networking, Configuring all	

1		
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 proposed site only. Remote		
control of network will not be		
given till the commissioning of the		
HPCC.		
Give 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.		
Provide case logging procedure for		
both hardware and software		
failure.		
OEM/Bidder is responsible for all		
performance benchmarks and the		
quote should contain an		
undertaking certifying the same		
from the OEM/Bidder.		
As a part of the acceptance test, the		
TIFR-H team will check all the		
software mentioned above, for at		
least 3 days. TIFR-H teams will		
cross-check benchmarking and all		
other tests based on our input files		
in the fully offered solution. Apart		
from this, the bidder has to run		
and submit Linpack, Lapack,		
Scalapack benchmark results to		
 the TIFR-H team.		
All LAN cabling should be done on-		
site 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.	
Please specify the heat dissipation	
(in BTU) and max power	
consumption of each component	
when configured with the above	
configuration. The bidder has to	
visit the installation site and	
provide the plan, cluster rack	
arrangement and cooling	
requirements for hosting the HPCC	
in the given place.	
All the required CAT6 Patch cables	
should be branded (ISO/IEC	
11801) and it should be molded	
cables. It should withstand the	
heat produced at the back of	
servers.	
Supplier should have direct system	
integration (SI) with the OEM	
whose product the vendor is	
quoting for. The bidder should	
have a back-to-back agreement	
with the OEM to supply and	
support the OEM's product and	
solution in India.	
Itemized price list of each	
-	
hardware item, software bundle	
and service and warranty to be	
given separately and clearly.	
TIFR-H requires that there be a	
Single Point of Contact (SPoC)	
directly from OEM who is	
responsible for all issues between	
TIFR-H and the OEM/partner who	
executes this project.	
Service Level Agreement: SLA of	
98% of uptime within 24 hours	
reporting onsite, failing which	
penalty will be applicable based on	
deviation.	
The bidder has to ensure that the	
The shader has to clisure that the	

solution proposed delivers an	
uptime of 98% of the entire system	
on a yearly basis and minimum of	
92% on a monthly basis. Every	
percentage of uptime below 98%	
on a yearly basis will incur 0.1% of	
the total cost of this tender. In the	
event of failure of any of the	
subsystems or components of the	
proposed solution, the bidder has	
to ensure that the defects are	
rectified within two full working	
days. All these conditions need to	
be satisfied. Any delay in servicing	
node(s) beyond 3 days will incur a penalty of 0.2% of the total cost of	
this tender per day of delay. Any	
delay in storage or any of its	
subsystems not working beyond	
24 hours will incur a penalty of 0.20 of the total east of this tander	
0.2% of the total cost of this tender	
for every completed 24 hours.	
Bidder should install and	
accommodate the entire solution	
in a provided 42U rack with built-	
in cooling.	
Entire solution to be implemented	
in 10 weeks time line. Delay in	
delivery will have penalty. TIFR-H	
reserves the right to cancel the	
order if it is not deployed even	
after that.	
Delay due to TIFR-H will not be	
considered for computing penalty.	

NOTE:

- 1. The bidder should attach the point by point technical specification provided in the tender in a tabulation format and fill the technical compliance (with additional remarks if any) along with the bid.
- 2. The bidder should ensure the following:
- A. Earnest Money Deposit (EMD), tender fee submission.
- B. Attachment of Annexure C (Audited Annual Turnover Certified by CA).
- C. Attachment of Annexure D (Supplier order details with copy document) along with the bid as per tender terms & conditions.

Audited Annual Turnover Annexure – C

S.No.	Financial/ Accounting Year	Profit (Rs.)	Loss (Rs.)	Annual Turnover (in INR)
1.				
2.				
3.				

Authorized Signatory with Seal

Note:

This Audited Annual Turnover (Annexure – C) for the last 3 years should be certified by Chartered Accountant (CA) as per the format given above duly signed and stamped by the CA on their letterhead.

Supply Order details of GPU based High Performance Computing Cluster to Other Firms.

S.No.	Name of the company with full address	Name of the Project	Purchase Order No. & Date	Brief Item Description with Model No.	Item Value in Currency
Signat	ure				
Name					
Desig	nation				
Name	of the Company				
Date					
Seal of	f the Company				

Annexure – D

NOTE: Please attach the copy documents / purchase order copy for the above mentioned details.

TATA INSTITUTE OF FUNDAMENTAL RESEARCH Centre for Interdisciplinary Sciences

Plot No.36/P, Gopanpally Village, Serilingampally Mandal, Ranga Reddy District. Hyderabad - 500 107, Telangana, India. (PURCHASE SECTION)

1. **PART "A" (Technical Bid) consisting of Technical Bid with Commercial Terms** and **PART "B"** (Financial Bid) consisting of only Price shall be submitted in separate sealed envelopes duly superscribed with the tender enquiry number, and the due date in bold letters, addressed to the Administrative Officer, Tata Institute of Fundamental Research, Plot No.36/P, Gopanpally Village, Serilingampally Mandal, Ranga Reddy District. Hyderabad-500 107, Telangana, India. The envelopes should be clearly marked on top as either PART "A" or PART "B".

The two sealed covers should be further put in a master cover superscribed with the Tender Enquiry No., Due Date in bold letters, addressed to the Purchase Officer, Tata Institute of Fundamental Research, Plot No.36/P, Gopanpally Village, Serilingampally Mandal, Ranga Reddy District. Hyderabad-500 107, Telangana, India. The sealed master envelop has to be delivered by hand/courier at the security Gate Office of TIFR-TCIS on or before 13.00 hrs. on the due date specified. The technical bid will be opened in the presence of attending tenderers at 16.00 hrs. on the due date at Purchase Section, TIFR-TCIS, Hyderabad. Tenders submitted after 13.00 hrs. on due date will not be considered.

2. In case the PART "A" and Part "B" bids are not sealed in separate envelopes the tender will be rejected.

- 3. The technical bid should not contain any indication of the price. The bidder should take special care not to mention anything related to pricing and costing aspect of whatsoever nature. The technical bid should include/contain only technical specifications, technical literature, drawing, quantity, manufacturing and delivery schedule, mode and terms of payment, mode of dispatch, the quantum and percentage of statutory levies payable by the purchaser as extra and all related commercial terms and conditions for the supply and for the services like erection and commissioning to be rendered by the tenderer. The details of the validity of the tender should also be indicated along with the commercial details.
- 4. After scrutiny of Technical Bids, Financial bids of only those bidders who are shortlisted on technical basis will be opened at on later date. The opening date, time and venue will be intimated to the technically successful bidder.
- 5. All the bidders/contractors should provide Company Authorization Letter duly signed and stamped by Competent Authority to participate in the tender related meetings at TIFR Hyderabad.

6. <u>Tender Document Fee:</u>

- a. For Indian Supplier: Tender fee for Rs. 500/- (Non-refundable) in the form of D.D. in favour of "TIFR Centre for Interdisciplinary Sciences", payable at Hyderabad to be enclosed with the Technical Bid (Part A).
- b. For Foreign Supplier: Tender fee of USD 100 (Non-refundable) in the form of advance cheque in favour of "TIFR Centre for Interdisciplinary Sciences", payable at Hyderabad to be enclosed with the Technical Bid (Part A).

7. Earnest Money Deposit (EMD):

- a. For Indian Supplier: Earnest Money Deposit (EMD) for Rs. 1,16,000/-in the form of D.D. in favour of "TIFR Centre for Interdisciplinary Sciences", payable at Hyderabad to be enclosed along with the technical Bid (Part A).
- b. For Foreign Supplier: Earnest Money (EMD) for USD 1620 in the form of advance cheque in favour of "TIFR Centre for Interdisciplinary Sciences", payable at Hyderabad to be enclosed with the Technical Bid (Part A).

EMD shall be interest free and it will be refunded to the unsuccessful bidder without any interest. EMD will be forfeited if the bidder withdraws or amend impairs or derogates from the tender in any respect.

- 8. Bidders who have not accepted the job/order awarded to them or withdrawn from the tender process OR whose EMD/Security deposit has been forfeited in the past, their bids will not be considered and treated as ineligible / disqualified.
- 9. After downloading the documents please inform your company details such as name, address, telephone nos., contact person and email address etc. by email to us (purchasegroup@tifrh.res.in , jrathna@tifrh.res.in) to enable us to inform prospective bidder for any corrigendum/changes if any; in the Tender document before due date.
- 10. Quotations must be valid for a period of 180 days from the due date.
- 11. Tenders containing correction, overwriting will not be considered. Late or delayed/Unsolicited quotations/offers shall not be considered at all. These will be returned to the firms as it is. Post tender revisions/corrections shall also not be considered.
- 12. Tenderer should sign on all the pages of the technical bid and the price bid.

- 13. The price quoted for Import item must be on following basis:
 - a. Ex-Work/factory duly packed airworthy/seaworthy and of international standard
 - b. FOB/FCA
 - c. CIF Hyderabad, Airport Port (all-inclusive i.e. Cost of Goods, Packing, Insurance, Inland transportation, freight etc.)

For local item /supply, offer should be on FOR basis (i.e. total landed cost for delivery at TIFR-TCIS, Hyderabad).

The dimension of the item (viz. H, W, L, weight etc.) shall be specifically stated and also mention whether the mode of shipping the item is Airworthiness / Seaworthiness or both. Accordingly the mode of shipment will be decided by TIFR-TCIS.

Price must be quoted in the Price Bid Format attached herewith as "Part –B" (Financial Bid).

- 14. If equipment offered is to be imported, arrangements for import will be made by us.
- 15. Tenders who do not comply with any of the condition are liable to be rejected.
- 16. The Institute shall be under no obligation to accept the lowest or any other tender received in response to this tender notice and shall be entitled to reject any tender without assigning any reason whatsoever.
- 17. TIFR reserves the right to place the order for part/reduced quantity than what is specified in the tender.
- 18. **Performance Security**: The Successful bidders should deposit @ 10% of Purchase Order value as Performance Security against issue of order/contract to be submitted within 15 days against issue of order/contract. The performance security shall be in the form of Demand Draft in favour of "TIFR Centre for Interdisciplinary Sciences, Hyderabad" payable at Hyderabad (or) Bank Guarantee from State Bank of India & Associates (or) any one of the Nationalized Banks.

The Performance Security will be returned back to the successful supplier on receipt of the Performance Bank Guarantee (or) The 10% Performance Security Deposit may be extended as Performance Bank Guarantee valid for 60 days beyond the date of completion of all contractual obligations of the supplier including warranty period. Vendor should clearly mention their acceptance to this effect in their quote.

Performance Bank Guarantee: Performance Bank Guarantee for 10% of the value of supply should be provided and it should be valid for 60 days beyond the date of completion of all contractual obligations of the supplier including warranty period. Performance Bank Guarantee should be from Nationalised Bank. In case Performance Bank Guarantee is not provided, 90% payment only would be released and balance after 60 days beyond the date of completion of all contractual obligations of the supplier including warranty period. Vendor should clearly mention their acceptance to this effect in their quote.

- 19. **PAYMENT TERMS:** 80% payment shall be made through irrevocable L/C on presentation and receipt of complete, clear shipping documents, against confirmation from TIFR, Hyderabad and balance 20% of the amount shall be released after successful installation, commissioning and acceptance of the equipment certified by purchaser and on submission of "Performance Bank Guarantee (PBG)" for an amount equivalent to 10% of the Purchase Order Value. The PBG shall be valid for a period of 60 days beyond the date of warranty period. The PBG should be from State Bank of India & Associates (or) any one of the Nationalized Banks.
- 20. PAYMENT TERMS FOR INDIGENOUS ITEMS: 100% payment shall be released after receipt, installation, commissioning and acceptance of the equipment.
- 21. **Pre Inspection Report:** The successful bidder should submit the Pre Inspection Report to TIFR Hyderabad before dispatch of the material (if required).
- 22. Repair / replacement if required any during the warranty period, necessary customs clearance charges / customs duty charges, freight charges for sending back the repair material to supplier and import freight charges of replacement should be borne by the supplier.
- 23. For Import cases: No Agency commission will be paid as per Govt. of India rules.
- 24. All bank charges outside India to supplier's account only.
- 25. TIFR is exempted from paying of Custom Duty under the notification No.51/96 dated 23.07.1996, Excise Duty under the notification No.10/97 dated 01.03.1997, for all procurements/supply meant exclusively for Educational, scientific and research purpose. Whenever the exemption certificate not honored by the authorities, the applicable duty will have to be paid. Hence Excise & Custom duties, if any, should be shown separately.

TIFR is a public funded research institute and is entitled to concessional rate of GST @ 5% for certain items supplied for research purpose vide notification no. 45/2017 (CGST) and 45/2017 (IGST) dated 14th Nov, 2017. The offer should be submitted after fully considering the above notification.

26. <u>TAXES:</u> TIFR does not have any exemption/concession on payment of Sales Tax and we are not authorized to issue any Sales Tax Form 'C' & 'D'.

Deduction of Indian Income Tax Deduction at Source: The Deduction of Indian Income Tax Deduction at source (TDS) will be deducted as per IT Act. The taxes at the time of actual utilization of service etc. will be deducted if applicable any.

GST rule will be applicable with effect from 01.07.2017. The applicable TDS /other charges if any as per GST rule will be deducted as per new GST regime.

TIFR-Hyderabad GST NO: 36AAATT3951F2ZG.

- 27. Bidders, please provide the PAN No., Bank Details, email ID, Contact person details, GST No etc.
- 28. The Supplier shall arrange to ship the ordered materials within the mutually agreed delivery period mentioned in the order unless extended with/without penalty. Please mention the Delivery Period Clearly in the Bid, however effort to be taken to deliver the materials at the earliest.
- In case of delay in supply on part of the supplier, a penalty @0.5% per week of order value will be charged for delayed period subject to a maximum of 10% order value.
- If the delay in the shipment of the ordered materials attributable to the supplier exceeds agreed time period from the date of original agreed upon date of shipment and extended with/without penalty, the TIFR-TCIS, Hyderabad shall have the right to cancel the contract / purchase order and recover the liquidated damages from other dues of the party or by legal means. It will also affect the other/future business dealings with such suppliers.
- The same rate of penalty shall be applicable for late installation of the equipment/instrument also.
- 29. **COMMENCEMENT OF WARRANTY PERIOD:** The warranty period of an item shall commence from the date of receipt of the item in good working condition and satisfactory installation/commissioning/demonstration at the project site.
- 30. **ANNUAL MAINTENANCE CHARGES:** The bidder must mention in the quotation, the rate/amount of annual maintenance charges, if we opt for maintenance contract after expiry of the warranty period.
- 31. Specifications are basic essence of the product. It must be ensured that the offers must be strictly as per our specifications. At the same time it must be kept in mind that merely copying our specifications in the quotation shall not make the parties eligible for consideration of the quotation. A quotation has to be supported with the printed technical leaflet/literature of the quoted model of the item by the quoting party/manufacturer.
- 32. **OBSERVANCE OF LOCAL LAWS:** Wherever applicable (particularly for Local vendors), the vendor / contractor shall comply with all law, statutory rules & regulations etc. The vendor/ contractor shall obtain all necessary permits / approval from the local Governing Body, Police, and other concerned Authorities as may be required under law. The vendor /contractor shall pay all types of taxes, fees, license charges, deposits, duties, tolls, royalty or other charges that may be leviable account of any of the operations connected with the execution of this work/ contract.
- 33. In case of any interpretational issues arises in this tender, the interpretation/decision of TIFR Hyderabad shall be final and binding on the bidder.

- 34. It is the responsibility of the vendor to make sure that the system being proposed can be exported to India with TIFR Hyderabad as the end user. All clarificatory documentation must be submitted with the Bid.
- 35. TIFR TCIS reserves the right to ask for or to provide any clarification, changes after the release of this tender. Any changes or clarifications provided by TIFR-TCIS, Hyderabad may be checked at TIFR-TCIS website: <u>https://www.tifrh.res.in/index.php/commercial-tenders</u>

ADMINISTRATIVE OFFICER (PURCHASE SECTION) TIFR, HYDERABAD

Financial Bid for Supply, Installation and Commissioning of GPU based High Performance Computing Cluster for TIFR Hyderabad.

(Part - B)

Annexure – E

TIFR-H Enquiry No & Date: _____ Due date: _____ Bidder's Quotation Ref No. & Date:_____

All the Bidders should quote their offer in the following format for uniformity.

Mandatory Items

S.No.	Item Description as per tender	Make/Brand/ Type	Qty.	Rate per unit (Currency)	Basic Cost of main item (In Currency)
А.			1		
1.	Master + Storage Node		No.		
			3		
2.	Compute Nodes		No's		
	Networking/Interconnect - 1 No of 24 Ports 1 G copper Ethernet Switch with required cables		2 No's		
B.	Ex-Works cost (Duly packed Airworthy/Seaworthy of international standard)				
C.	FOB /FCA Cost (Name of Airport)				
D.	CIP/CIF Cost (Upto Hyderabad Airport)(all inclusive i.e. Cost of Goods, Packing, Insurance, Inland transportation, freight etc.)				

Note:

- 1. All the column should be appropriately filled and not left blank.
- 2. Do not include any other charges, taxes, duties etc. in the Basic Cost of the item.
- 3. Any accessories, optional items should be shown separately using above format.
- 4. Use separate sheet for detail description, specification of the item, but prices should be quoted in same format.
- 5. Prices quoted in Indian Currency should be on F.O.R. basis and mentioned separately using different table format showing all the applicable taxes/Duties like GST, Freight & Transportation charges and installation charges etc.
- 6. TIFR Hyderabad being educational & research institute, discounted price shall be offered.

Signature of the Bidder

Name, Address contact no	
& email id of the bidder/	
Company with company's Stamp or	Seal
Date:	

Place: _____

Financial Bid for Annual Maintenance Contract for GPU based High Performance Computing Cluster for TIFR Hyderabad. (Part – B) Annexure – F

TIFR Hyderabad Enquiry No & Date: _____ Due date: _____ Bidder's Quotation Ref No. & Date: _____ Financial Bid (Bidders must quote their rates using this Format)

Note: The bidder must mention in the quotation, the rate/amount of annual maintenance charges, if we opt for maintenance contract after expiry of the warranty period.

S.No.	AMC (for item Description as per Tender) after Warranty Period	Rate / Year In INR	Tax (%) or Amount in INR	Total Amount in INR
1.	1 st Year			
2.	2 nd Year			
3.	3 rd Year			

Note:

- 1. All the column should be appropriately filled and not left blank.
- 2. Do not include any other charges, taxes, duties etc. in the Basic Cost of the item.
- 3. Prices should be quoted in same format.
- 4. TIFR Hyderabad being educational & research institute, discounted price shall be offered.

Signature of the Bidder

Name, Address contact no

& email id of the bidder/ _____

Company with company's Stamp or Seal_____

Date: _____

Place: _____