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TIFR Centre for Interdisciplinary Sciences

21, Brundavan Colony, Gandipet Road, CBIT Post Office, Hyderabad-500 075

Phone: 040-2419 5029, Email: purchase@tifrh.res.in

Date: 03-02-2017

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

Supply, Installation and Commissioning of GPU based High Performance Computing (HPC) Cluster at TIFR-TCIS, Hyderabad.

(As per Technical Specifications)- Qty - 1No

Public Tender No.	TFR/PD/F-730/IC16-56/160442
Published on	07-02-2017
Tender Fees	For Indian Supplier- Rs. 500/-
	For Foreign Supplier-USD 100/-
EMD Amount	For Indian Supplier - Rs. 88,000/-
	(Rupees Ninety Eight Thousand Only)
	For Foreign Supplier - USD 1400
Estimated Cost	Rs.44 Lakhs
Pre-bid meeting	21-02-2017 at 14.30 Hrs.
Type of Tender	Two Part Public Tender
Last Date for Submission of Bid	28-02-2017 upto 13.00 Hrs.
Date of Opening Bids	28-02-2017 at 15.00 Hrs.
(Part A)	

**Both** <u>Technical Bid (Part A) and Financial Bid (Part B)</u> 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.

Administrative Officer

# Ctifr

# TATA INSTITUTE OF FUNDAMENTAL RESEARCH

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#### Annexure-A

# Supply, Installation and Commissioning of GPU based High Performance Computing (HPC) Cluster

## Pre-qualification for bidders

Mandatory requirements for a bidder to qualify as a participant in this tender:

S.	Dro qualification evitoria	Complian	Domanlza
	Pre-qualification criteria	Complian	Remarks
N		ce Yes/No	
0			
1.	The bidder and OEM should have executed at		
	leastminimum three 5 TF HPC clusters, in that		
	at least one HPC cluster with minimum four 4		
	GPU nodes in Indian institutions using the		
	architecture and technologies similar to those		
	being proposed in their quotation against this		
	tender. Purchase order copies of the same must		
	be submitted with the technical bid. The OEM		
	and partner should have successfully executed		
	projects at premier Indian Defense		
	organizations or premier Indian Academic and		
	Research institutions like IISc, TIFR, IISER, NIT,		
	IIT or institutions of equivalent stature. Bidders		
	should submit the satisfactory performance		
	letter/ certificate from their Clients, where they		
	have installed HPCs having similar		
	configurations.		
2.	The bidder should have the presence in Indian		
	HPC Market at least from the last 3 years in		
	same business with logistics facility for easy		
	access and availability of upgrades in India to		
	• • •		
	ensure the proper back-end support for smooth		
	execution and post-sale support operations of		
	such kind of geographically wide spread		
	network. Documentary proofs should be		



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	attached	
3.	The bidder should have average annual sales turnover of Rs.2Crores or more during the last three financial years ending 31st March, 2016.Attach firm's last 3 years audited profit and loss balance sheet duly audited by C.A	
4.	All warranty and support must be serviced directly by the OEM or should be from a Authorized System Integrator Partner who is Authorized to Support the product quoted. TCIS requires that there be a Single Point Of Contact (SPOC) from OEM/Vendor who is responsible for all issues between TCIS and the OEM.	
5.	Bidder should be either an Original Equipment Manufacturer (OEM) or should be a Authorized System Integrator Partner having Support Authorization to support the quoted products.	
6.	Hardware and software warranty to be covered directly by OEM/Vendor. Vendor is required to stock a set of spares of all critical components related to the HPC onsite at TCIS Hyderabad's premises	
7.	All warranty and support must be serviced directly by the OEM/Vendor. They should have a registered local office within the radius of 1000 Km from Hyderabad. OEM/Vendor acceptance letter to be enclosed.	
8.	The principal firm/bidding partner must have a local logistics support by maintaining a local spares depot in the within the radius of 1000 Km from Hyderabad. This is to ensure immediate delivery of spares parts from Principal Vendor of equipment to its channel partner/system integrator	
9.	The OEM/Vendor should have at least one service Center within the radius of 1000 Km	



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	from Hyderabad. The OEM/Vendor should have service engineers in the relevant field of quoted item. At the Hyderabad, they should have a minimum of 1 experienced HPC engineer residing/stationed in Hyderabad, who should have carried out at minimum three 5 TF HPC installations and software and hardware maintenance of HPC Clusters, who should be able to provide (24X7X365) hardware and software support for the cluster. Resume/CV of the engineer should be attached	
10.	All the components proposed in quotation must have all encompassing warranty of 3 years duration which includes hardware, software updates and vendors& OEM should provide on call support throughout the lifetime of the all quoted items beyond the warranty period. Beyond Warranty period, Vendors & OEM should provide on call pay support till the HPC is operational.	
11.	Product offered should not have end-of-life (for Sales) for next three years from the date of quote submission.	
12.	All quotations submitted must follow the prescribed format for technical compliance as in document below. Failure to do will result in the quotation being summarily rejected. Soft copy of the document in excel format should also be submitted.	
13.	One bidder can propose only one solution and the price bid for the same should be submitted. Quoting of multiple solutions with multiple price bids will result in the quotation being summarily rejected.	



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### **Technical Qualifying Criteria**

The Bidders can use any single precision NVIDIA GPUs (GeForce/Tesla) to achieve minimum 94 ns/day on the user given gromacs code on a single node. There is no restriction on the use of ECC or NV-Link, NVML, number of GPUs per node and GPU:CPU ratio to achieve the required results. The benchmarking code and running instructions will be available in the following link.

(http://www.tifrh.res.in/webdata/documents/events/tenders/2016/gromac sbm.zip)

This results have to be submitted along with the technical bid. The bidders have to reproduce the same results as a part of acceptance test on every compute nodes as well. During the acceptance test, the maximum allowable deviation from the mentioned results should be less than 2% only.

Bidders should run these codes on OEM machine and architecture, which they are bidding. 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.



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# **Scope of Work**

### **Technical Specifications**

# Specifications of the GPU based High Performance Computing cluster

#### **Mandatory Clause**

- 1. All warranty and support must be serviced directly by the OEM or should be from a Authorized System Integrator Partner who is Authorized to Support the product quoted. TCIS requires that there be a Single Point Of Contact (SPOC) from OEM/Vendor who is responsible for all issues between TCIS and the OEM.
- 2. All the software deployment will be in vendor's scope of work and vendors are requested to include any software deployment charges in their proposal
- 3. The Master, compute and storage nodes should be dense rack form factor designed for cluster solution and should be in the lowest foot print and the lowest power consumption.
- 4. The entire solution must be factory integrated, tested, validated and certified in the bidder/OEM site. No on-site or local assembling of the system at TIFR-TCIS 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 Compliance S.N **Description Qty** Make & **Remarks** Yes/No Model 0 1 **Master & Storage Node** 1 2 x E5 2620 V4 Broadwell with 2.10 Ghz, with 8 Cores Intel C610 or higher Dual socket Chipset with rack-mountable chassis with sliding rails inclusive of peripherals. Minimum 2 X 480 GB 6 Gbps MLC Enterprise SATA SSD hard disks or



			T	T	Г
	higher configured with RAID 1 for the				
	Operating System.(Only certified				
	compatible SAS/SATA HBAs should be				
	used) Preferred makes : Intel or				
	equivalent				
	16 X 8 TB 3.5" 7.2 K RPM 6 Gbps				
	SATA/SAS hot pluggable hard disks				
	configured with RAID 6 with hot spare.				
	(Preferred Makes - HGST Ultrastar				
	Helium, WD or equivalent)				
	Minimum 128 GB ECC DDR4-				
	2133/2400 Mhz or better RAM in				
	balanced configuration for optimizing				
	the memory bandwidth.				
	RAID Controller supporting RAID				
	0,1,5,6 with minimum 2 GB RAM				
	Minimum 4 x 1 Gbps Ethernet ports				
	with support for link aggregation.				
	Required accessories also to be quoted				
	for connecting to the switch.				
	IPMI 2.0 or equivalent Support with				
	KVM and Media over LAN features.				
	Must include any licenses, if required				
	for using these features				
	80 Plus Platinum or better certified				
	Redundant Power Supply				
	Computing connectivity as mentioned				
	in Sl. no 3 of technical specifications in				
	Annexure -A				
2	GPU Compute Nodes	4			
	2 x E5 2667 V4 Broadwell with 3.2 Ghz,				
	with 8 Cores				
	Intel C610 or higher Dual socket				
	Chipset with rack-mountable chassis				
	with sliding rails inclusive of all				



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peripherals.	
Minimum 2 X 120 GB 6 Gbps MLC	
Enterprise SATA SSD hard disks or	
higher configured with RAID 1 for the	
Operating System. (Only certified	
compatible SAS/SATA HBAs should be	
used) Preferred makes : Intel or	
equivalent	
Minimum 64 GB ECC DDR4-2133/2400	
Mhz or better RAM in balanced	
configuration for optimizing the	
memory bandwidth.	
Minimum 4 x 1 Gbps Ethernet ports	
with support for link aggregation.	
Required accessories also to be quoted	
for connecting to the switch.	
IPMI 2.0 or equivalent Support with	
KVM and Media over LAN features.	
Must include any licenses, if required	
for using these features	
NVIDIA GPUs. No restriction on ratio of	
CPU and GPUs.	
80 Plus Platinum or better certified	
Redundant Power Supply	
Computing connectivity as mentioned	
in Sl. no 3 of technical specifications in	
Annexure -A	
Note: The Bidders can use any single	
precision NVIDIA GPUs (GeForce/Tesla)	
to achieve minimum 94 ns/day on the	
user given gromacs code on a single	
node. There is no restriction on the	
number of GPUs per node and GPU:CPU	
ratio. The benchmarking code and	
running instructions will be available in	
the following link. This results have to	



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_				
	be submitted along with the technical			
	bid. The maximum allowable deviation			
	from the mentioned results should be			
	less than 2% only. Bidders should			
	provide access for the user for			
	verification, where they have ran the			
	benchmark codes for the technical bids.			
3	Display Peripherals, Networking and	4		
	Interconnect			
	24 Port Gigabit rack mountable switch	3		
	with all accessories for rack mounting			
	22 Inch Full HD IPS LED Display with a	1		
	Keyboard & mouse set with			
	DVI,VGA,HDMI and Display ports and			
	cables for all ports.			
	(or)			
	1U Rack mountable KVM display with			
	keyboard and touchpad			
	Primary and secondary communication			
	network for computing through			
	completely non blocking interconnect			
	fabric with 1 Gbps Ethernet or higher			
	(in terms of bandwidth) inclusive of all			
	peripherals.			
	Communication network for cluster			
	management, provisioning and IPMI			
	management through gigabit (1 Gbps)			
	rack mountable Ethernet switch			
	inclusive of all peripherals.			
	Master /Head /Login node has to have			
	at least 4 x 1 Gbps NIC for LAN			
	connectivity.			
	All Network/Interconnect cablings			
	must be structured and adhere to			
	ANSI/TIA – 568 standard.			



4	Hardware & Software installation,		
_	warranty & support		
4.1	System software		
	Operating System - Latest stable		
	version of CentOS Linux or Open		
	Source Enterprise Linux (7.3 or above)		
	The HPC servers should be clustered		
	together through open source		
	clustering tools. Preferred clustering		
	tool - xCAT - opensource		
	(https://xcat.org/), openHPC		
	Open source scheduler - Preferred PBS		
	Pro (Open source)		
	(http://www.pbsworks.com/opensourc		
	e) or SLRUM		
	Modules support for maintaining		
	multiple versions of software. All		
	software should be configured with		
	module environment.		
	(http://modules.sourceforge.net/).		
	All specified solutions and required		
	software products must be clearly listed		
	with mode of licensing used and		
	number of licenses required including		
	the period of validity and any		
	maintenance or upgrade applicable.		
	Restrictions on software usage, if any,		
	should also be indicated.		
	PERPETUAL LICENSE is required for all		
	these software.		
	All hardware should be installed with		
	recent stable version of firmware.		
4.2	Job/Work load management		
7.4	<u> </u>		
	Jobs can be submitted from master		



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	master nodes.			
	Integration of all software components			
	so as to make the complete HPC cluster			
	system fully functional and usable (e.g.,			
	integration of the scheduler with MPI,			
	any license managers, etc.).			
	Detailed reports about cluster usage			
	statistics. Reports of every user and			
	jobs including their monthly usage,			
	node usage, percentage of utilization,			
	History tracking, number of completed,			
	failed, queued and running jobs;			
	estimated delay and average job			
	duration.			
	Automated health check of nodes and			
	Urgent alert messages about critical			
	errors via SMS/E-mail.			
	IPMI and Ganglia should be installed			
	and configured for GUI based			
	monitoring for cluster management.			
4.4	Application Software			
	The cluster should be installed with the			
	following software, which will be			
	benchmarked and evaluated as a part of			
	acceptance test			
	HPL, OpenMPI, Gromacs, Matlab,			
	Mathematica, python (with support			
	libraries), FFTW, P3DFT, LAMMPS			
4.5	Warranty and Support (NOT			
	OPTIONAL)	Yrs		
	Comprehensive Hardware and software			
	warranty			
	Training for general system			
	administration with documentation			
	including tasks such as user/node			
	management, installation/upgrade,			



queuing system management and file	
system management.	
The OEM/Vendor should have L2/L3	
level service engineers in the relevant	
field of quoted item. At the Hyderabad	
Center, they should have a minimum of	
1 certified HPC engineer residing in	
Hyderabad, who should have carried	
out at minimum three 5 TF or above	
HPC installations and should have	
experience and complete knowledge of	
HPC hardware and software used by the	
users mentioned in the below	
document and he should be able to	
provide support to the users 24X7X365	
remotely and Next Business Day (NBD)	
onsite support. Details of the HPC	
engineers assigned to the projects and	
their Resume should be enclosed	
(Mandatory, not optional)	
One L2/L3 level trained personnel	
should be available to help at any time	
either remotely or in person for	
technical support for	
administration/maintenance (both	
software and hardware levels) of HPC.	
OEM/Vendor should not change the	
support engineers assigned to this	
project without TCIS IT in-charge	
knowledge.	
Vendor/OEM engineer should visit TCIS	
every 90 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	
vendor will be responsible to protect	



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	data during any upgrades of		
	firmware/OS.		
	Fully automated ticketing system with		
	an dedicated helpdesk email account		
	which is regularly monitored should be		
	available to the 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 software installed		
	in the cluster to manage it.		
	Faulty parts should be replaced within		
	48 hours of logging a call.		
4.6	Documentation (NOT OPTIONAL)		
	• User		
	Creation/Deletion/Modification.		
	<ul> <li>Bringing up and shutting down the</li> </ul>		
	cluster.		
	Bion status momentum or master / 10		
	nodes and storage enclosure.		
	Basic troubleshooting for storage  and ich schoduler		
	and job scheduler.		
	• Step by step installation guide for		
	node configuration from scratch.		
	When handing over the cluster the		
	vendor should provide the full		



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	design of the cluster installation		
	including the electric connections,		
	network connections, user manual		
	clearly explaining how to use the		
	cluster.		
4.7	Terms and conditions: (Mandatory,		
	Not Optional)		
	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.		
	At the time of installation, if it is found		
	that some additional hardware or		
	software items are required to meet the		
	operational requirement 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		
	configuration at no extra cost.		
	Delivery period will be 8 weeks from		
	the date of purchase order. Once		
	delivered to onsite, the installation,		
	commissioning and acceptance testing		
	period will be within 4 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.		
	The HPC cluster should be completely		
	assembled, tested with all application		
	benchmarks mentioned in the tender at		



	the OEM site before shipping and the		
	results should be submitted to TCIS IT		
	team in a CD/DVD, hard copies are not		
	allowed. During the acceptance test, the		
	vendor/ OEM should regenerate the		
	same benchmark results, maximum		
	allowable deviation for the benchmark		
	results is only 1%.		
	All vendors participating in this tender		
	must visit the TCIS site for a complete		
	site survey and also meet with the TCIS		
	IT team in the pre-bid conference for		
	detailed discussions and clarifications,		
	if any.		
	The installation should be done by		
	certified and 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		
	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 during		
	installation.		
	Give all model numbers of master		
	nodes, compute nodes, hybrid nodes,		
1	Inouco, compute nouco, nybria nouco,		1



storage nodes, Infiniband chassis switch	
model, Accelerator card details,	
maximum number of port in IB switch	
and how many ports populated	
Provide case logging procedure for both	
hardware and software failure.	
OEM is responsible for all performance	
bench marks and the quote should	
contain an undertaking certifying the	
same from the OEM.	
As a part of acceptance test, TCIS team	
will check all the software mentioned	
above, for at least 3 days. TCIS team will	
cross-check benchmarking and all other	
tests based on our input files in the fully	
offered solution.	
All LAN cabling should be done on-site	
as per the length required using CAT6.	
Use factory crimped CAT6 cables. 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 configures with	
the above configuration.	
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	



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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.  TCIS requires that there be a Single Point of Contact (SPOC) directly from OEM who is responsible for all issues between TCIS and the OEM/partner who executes this project.  SLA of 98% of uptime within 24 hours
solution in India.  Itemized price list of each hardware item, software bundle and service and warranty to be given separately and clearly.  TCIS requires that there be a Single Point of Contact (SPOC) directly from OEM who is responsible for all issues between TCIS and the OEM/partner who executes this project.
Itemized price list of each hardware item, software bundle and service and warranty to be given separately and clearly.  TCIS requires that there be a Single Point of Contact (SPOC) directly from OEM who is responsible for all issues between TCIS and the OEM/partner who executes this project.
item, software bundle and service and warranty to be given separately and clearly.  TCIS requires that there be a Single Point of Contact (SPOC) directly from OEM who is responsible for all issues between TCIS and the OEM/partner who executes this project.
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TCIS requires that there be a Single Point of Contact (SPOC) directly from OEM who is responsible for all issues between TCIS and the OEM/partner who executes this project.
Point of Contact (SPOC) directly from OEM who is responsible for all issues between TCIS and the OEM/partner who executes this project.
OEM who is responsible for all issues between TCIS and the OEM/partner who executes this project.
between TCIS and the OEM/partner who executes this project.
who executes this project.
reporting onsite, failing which penalty
will be applicable based on deviation.
The bidder has to ensure 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 sub-systems 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 0.2% of the
total cost of this tender for every
completed 24 hours.



Bidder should provide complete		
documentation about the Rack layout,		
power, cooling and electrical		
infrastructure required at TCIS along		
with the bid.		
Entire solution to be implemented in 12		
weeks time line. Delay in delivery will		
have penalty. TCIS reserves the right to		
cancel the order if it is not deployed		
even after that.		
Delay due to TCIS will not be		 
considered in computing time		



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### **Annexure - B**

# Schedule of experience of last five years

Please furnish list of firms/offices where you have undertaken similar jobs (please use additional sheets, if necessary)

						•		I
S.	Name	of	Name	of	the	Purchase	Brief Items	Value in
No	company	with	project	Ī		order No &	description	Currency
	full address					Date	with Model	
							No	
Cian	aturo							
Sign	ature							
Nan	ne							
Des	ignation							
Name of the company								
Date	e	_						
Seal	of the compa	any						



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#### Annexure - C

#### **Audited Annual Turnover**

S.No	Financial/Ac counting year	Profit (Rs.)	Loss (Rs.)	Annual Turnover (INR)
1	2016-2017			
2	2015-2016			
3	2014-2015			
4	2013-2014			

#### **AUTHORIZED SIGNATORY WITH SEAL**

#### Note:

This Annexure-C should be certified by chartered Accountant(CA) as per the format given above duly signed and stamped by the CA on the letter head.

The right to suspend the NIQ/IIT process or part of the process, accept or reject any or all NIQ/IITs at any stage of the process and/or to modify the process or any part thereof anytime without assigning any reasons thereto is reserved by TCIS-TIFR without any obligation or liability whatsoever.



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### **Annexure - D**

# Schedule of deviations from specifications/conditions

All deviations from the bidder in this schedule.	ne specifications/conditions shall be filled in by the				
bidder in this schedule.					
_, , , , , ,					
	The bidder hereby certifies that the above mentioned are the only deviations				
from the technical spe	ecifications/ Commercial terms and conditions of this				
tender. (State NIL if no	deviation is envisaged)				
Signature					
Name					
Designation					
Name of the company					
Date					
Seal of the company					



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# $\frac{Annexure - E}{Supply, installation and commissioning of High performance computing cluster}$

TIFR-T	CIS Enquiry No & Date:				
Due dat	te:				
Bidder'	s Quotation Ref No. & Date:	_			
	<u>Financial Bid</u>	l (Part B) For	<u>mat</u>		
All the	Bidders should quote their offer in the fol	llowing forma	t for uni	iformity.	
I)	Import Supply:				
S.No.	Item Description as per tender	Make/Bra nd/ Type	Qty.	_	Total Amount (In Currency)
A	1.Master with Storage Node		1		
	2.GPU Compute Nodes		4		
	3.Display Peripherals,Networking and Interconnect		4		
	4.Hard ware & Software installation, warranty & support				
В	Total Ex-Works cost (Duly packed Airworthy/ Seaworthy of international standard)				
С	FOB /FCA Cost (Name of Airport )				
D	Total 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. All optional items & AMC should be shown separately.
- 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 Excise, VAT, service Tax, Freight & Transportation charges and installation charges etc.
- 6. TIFR 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:



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#### **TERMS AND CONDITIONS**

**1. PART "A" (Technical Bid) consisting of Technical Bid and 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, 21, Brundavan Colony, Narsingi, Gandipet Road, Hyderabad-500 075.

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 Administrative Officer, Tata Institute of Fundamental Research, 21, Brundavan Colony, Narsingi, Gandipet Road, Hyderabad - 500 075. The sealed master envelop has to be delivered by hand/courier in the Tender Box in the security Gate Office of TIFR-TCIS, Hyderabad (address mentioned above) on or before 13.00 hrs. on the due date specified. The technical bid will be opened in the presence of attending tenderers at 15.00 hrs. on the due date at Administration 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 despatch, the quantum and percentage of statutory levies payable by 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.

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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. Tender Document Fee:

- 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).

#### 6. **EMD**:

- a) For Indian Supplier: Earnest Money (EMD) for Rs. 88,000/- (Rupees Ninety Eight Thousand Only) 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 1400 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.
- 7. 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.
- 8. Quotations must be valid for a period of 180 days from the due date.



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- 9. 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.
- 10. Tenderer should sign on all the pages of the technical bid and the price bid.
- 11. The price quoted for Import item must be on following basis:
  - Ex-Work/factory duly packed airworthy/seaworthy and of international standard
  - FOB/FCA
  - CIF Indian 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.

- 12. If equipment offered is to be imported, arrangements for import will be made by us.
- 13. Tenders who do not comply with any of the condition are liable to be rejected.
- 14. 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.
- 15. TIFR reserves the right to place the order for part/reduced quantity than what is specified in the tender.



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#### 16. PAYMENT TERMS:

**Import Item**: 80% payment will be released through irrevocable Letter of Credit on presentation of complete and clear dispatch documents, material receipt and balance 20% of the amount shall be released through irrevocable Letter of Credit after the receipt of material installation, successful commissioning, calibration and acceptance of the equipment by TCIS authorized person(s) through all relevant documents with Performance Bank Guarantee to be valid beyond 60 days completion of all contractual obligations of the supplier including warranty period from the date of successful installation. However Letter of Credit arrangement will be made for 100% order value.

Indigenous Item: 80% of order value will be released on receipt of material at TIFR-TCIS Hyderabad, balance 20% shall be released after installation, successful commissioning and acceptance of equipment by its authorized person(s) through all relevant documents with Performance Bank Guarantee to be valid for 60 days beyond the date of completion of all contractual obligations of the supplier including warranty period from the date of successful installation.

17. **For Import cases:** No Agency commission will be paid as per Govt. of India rules.

18.**Performance Security:** The Successful bidders should deposit @ 10% of Purchase Order value as Performance Security within 2 weeks from the date of issue of order/contract. The performance security shall be in one of the following form. Demand Draft/Banker "cheque in favour of "TIFR Centre for Interdisciplinary Sciences, Hyderabad" payable at Hyderabad.

(0r)

Bank guarantee issued from State Bank of India & Associates (or) any one of the Nationalized Banks valid for 60 days beyond the date of completion of all contractual obligations of the Supplier including warranty period. Performance Security shall be forfeited if bidder fails to execute the order as



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per terms of contract/purchase order. If Performance Security is not paid within the specified time, TIFR TCIS reserves its right to cancel the order.

The Performance Security will be returned back to the successful supplier on receipt of the Performance Bank Guarantee (or) The 10% Performance Security Deposit in the form of Bank Guarantee which is mentioned above 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 State Bank of India & Associates (or) any one of the Nationalized Banks. 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.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.

20.**SALES TAX:** TIFR does not have any exemption/concession on payment of Sales Tax/VAT and we are not authorized to issue any Sales Tax Form 'C' & 'D'

21. The Supplier shall arrange to ship the ordered materials within the mutually agreed delivery period mentioned in the order unless extended with/without penalty.

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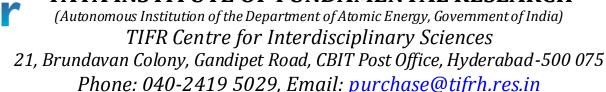
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a. In case of delay in supply on part of the supplier, a penalty @0.5% per week of order value will be charged for delayed period subject to a maximum of 10% order value.

- b. 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, Mumbai 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.
- c. The same rate of penalty shall be applicable for late installation of the equipment/instrument also.
- 22. The delivery period should be specifically stated and earlier delivery may be preferred.
- 23.**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.
- 24. **ANNUAL MAINTENANCE CHARGES for 4th and 5th year:** The bidder shall quote the rate/amount of annual maintenance charges separately, however AMC shall be an optional, TIFR may or may not opt for it.
- 25. 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 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.
- 26.**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 on account of any the operations connected with the execution of this work/ contract.

27.In case of any interpretational issues arises in this tender, the interpretation/decision of TIFR TCIS shall be final and binding on the bidder.

28.It is the responsibility of the vendor to make sure that the system being proposed can be exported to India with TIFR TCIS as the end user. All clarificatory documentation must be submitted with the Bid.

29.TIFR TCIS reserve 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 may be checked at TIFR TCIS website www.tifrh.res.in/tenders.

30. Delivery Address: TIFR Centre for Interdisciplinary Sciences, Tata Institute of Fundamental Research, 21 Narsingi, Brundavan Colony, Hyderabad - 500075.

31.All the bidders attending pre-bid queries should bring the list of queries in their official letter head with authorized signatory. Queries through random emails will not addressed.

32. Price must be quoted in the Price Bid Format attached herewith.

**ADMINISTRATIVE OFFICER**