

	प्लाज़्मा अनुसंधान संस्थान	
	Institute for Plasma Research	
	भाट, निकट इन्दिरा पुल, गांधीनगर - ३८२ ४२८ (भारत) Bhat, Near Indira Bridge, Gandhinagar 382 428, Gujarat (India)	
	Tel. :- 079 – 2396 2260, 2262, 2263, 2264. Fax :- 079 – 2396 2277	

Our Enquiry No.	Hardware and Software support for HPC 35 TF .
Our Enquiry Date	February 12, 2019.
Enquiry Due Date	07.03.2019 at 1300 Hrs.
Subject	Hardware and Software support for HPC 35 TF .

We would appreciate if you could kindly let us have your offer for Comprehensive Annual Maintenance Contract as under :-

No.	Particulars	
1.	Details of Equipment	High Performance Cluster of 35 TF.
2.	Scope of the Work and other details	As per Annexure – I.
3.	Rates / Estimate	Please quote your rates as per Annexure – II.
4.	Commencement of Support	01 (One) Year from 15.04.2019.
5.	Payment	Payment will be made within 30 days on successful completion of each quarter.
6.	TDS	Applicable TDS will be deducted.
7.	Validity of Offer	120 days.

Your offer complete in all respect must reach the Assistant Stores Officer latest by the due date in a sealed envelope marking on its top with enquiry number, due date, and work in brief.

Thanking you,
Yours faithfully,

Bharat Doshi
Chairman, Stores Committee

Encl. : as above.

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CAMC for 35TF (27TF CPU + 8TF GPU) HPC :
Software stack installed on the HPC as per Appendix-1
Appendix-1

Sr.No.	Description	Version
1	Operating System – RHEL	6.6, 64 Bit
2	Monitoring Tool- HP CMU	7.2
3	Job Scheduler – PBS Pro	18.2
4	Intel Cluster Studio XE for Linux	2015
5	Intel Lustre File System	
6	PGI Compiler	

AMC required for Hardware support and Software support as per Appendix-2
Appendix-2

Sr. No.	Make	Description	Hardware Support Required	Software Support Required
1	HPE	Two Head Nodes	Yes	Yes
2	HPE	Storage- MSA-1040 and MSA-2040	Yes	Yes
3	HPE	Four Storage Nodes	Yes	Yes
4	HPE	Network Switch	Yes	Yes
5	MELLANOX	IFINIBAND SWITCH- 36 Ports	Yes	Yes
6	HPE	24 No. of Compute Nodes		Yes
7	HPE	03 No. Compute Nodes with 6 No. of GPU (K40C)		Yes

NOTE: Server and storage of HPC is from HPE (Hewlett-Packard Enterprise India Pvt Ltd)

Mandatory Documents to be submitted :

1. Vendor should be OEM/Authorized Partner/service provider of OEM/System Integrator (SI) of OEM or should have back to back arrangement of supplying hardware components as per appendix-2. Appropriate document to be submitted.
2. Vendor must have experience of supplying, supporting and servicing, similar HPC Cluster, involving parallel distributed computing, fast inter connect, file server etc. As Documentary evidence of HPC experience, at least one purchase order with installation report or at least one maintenance contract of HPC must be provided. In either case, size of the HPC should be with Theoretical Peak ≥ 27 TF CPU.
3. Vendor having well established service and support facility at Ahmedabad/Gandhinagar will be preferred.
4. Vendor should submit office address proof.

Scope of work:

1. Software support as per Appendix-1 is required for ITEMS listed in Appendix-2.
2. Vendor will solve software related issues either by remote support or by sending their engineer onsite in co-ordination with OEM (as and when required) and IPR HPC team.
3. Other activities in software support will include installation of MPI libraries, commercial scientific/Math libraries, C, C++, GCC, Fortran, Python, Java, CUDA etc., compilers, parallel debugger, profiling tool, patch update etc., as and when required.
4. Vendor will be responsible for fresh installation (if required) in case of any failure.
5. Installation/implementation/upgrade of any hardware/firmware, BIOS, patches, if required.
6. Part replacement as and when required will be done by vendor without cost to IPR.

Quotes required as follows:

1. Vendor will quote for AMC for Software support as per Appendix-1.
2. Vendor will quote for CAMC for Hardware support as per Appendix-2.

Acceptance Criteria:

1. Quarterly system health report will be submitted by vendor along with service invoice.
2. Vendor will also submit quarterly services report, if any.

Payment Terms:

1. At the end of every Quarter.

Terms and Conditions:

1. Initially support would be for 1 year from date of this work order.
2. It can be further extended for another 1 year with mutual agreement with same terms & conditions and rates.
3. Contract can be short closed, in case of parts required for items listed in Appendix-2 are not available / repairable, which brings the system down.

Hardware Details / Configuration :

Sr. No.	Make	Description	Quantity	Sr. No./Model	Details / Configuration
1	HPE	Head Nodes	02	SGH531VNEJ SGH531VNEF/ HP DL380 Gen 9	2 x Intel 2695 v3, 2.3 GHZ, 2 x 900GB SAS, 512 GB.
2	HPE	Storage- MSA-1040	01	2S6524Do94 / Storage- MSA-1040	Controller with 4 x 300GB SAS.
3		Storage-MSA-2040	01	Storage-MSA-2040 / 2S6529Do19	Controller with 150 TB Storage Space with 3 enclosures.
4	HPE	Four Storage Nodes	04	SGH53VLW0 SGH53VLW1 SGH53VLVX SGH53VLVS / HP DL360 Gen 9	2 x Intel 2630 v3 2.4 GHZ, 2x 300GB TB SAS, 64 GB.
5	HPE	Network Switch	01	CN54BYVoDZ	48 Port giga bit switch.
6	MELLANOX	INFIBAND SWITCH-36 Ports	01	IL252103KB	MELLANOX - SX6025 / INFIBAND SWITCH- 36 Ports.
7	HPE	Compute Nodes	24	HP ProLiant XL250a gen 9	2 x Intel 2695 v3, 2.3 GHZ, 900GB SAS, 512 GB.
8	HPE	Compute Nodes with 6 No. of Nvidia K40C GPU	03	HP ProLiant XL250a gen 9 with GPU tray	2 x Intel 2695 v3, 2.3 GHZ, 900 GB SAS, 512 GB with 2x Nvidia k40C GPU.

Annexure – II

	प्लाज़्मा अनुसंधान संस्थान
	Institute for Plasma Research
	भंडार अनुभाग STORES SECTION stores@ipr.res.in

RATE SCHEDULE

We hereby offer rates against Enquiry No. IPR/ST/ENQ-AMC/60/18-19 dated 12.02.2019 as under :-

Sr. No.	Particulars	Qty.	Unit	Rate	Amount
1	Charges for Providing CAMC for all components, Hardware and Software support as indicated in Annexure – I of this Enquiry.	04	Quarter		
2	Others, if any				
3					
4					
5	Total →				

Please Fill or Tick the appropriate Columns

TAXES AND DUTIES			
Particulars	Applicable Rate (%)	Inclusive	Exclusive
GST No.			
Others, if any			
Others, if any			

GST Registration No. & Date	PAN Card No.

Date :

(Signature with Seal)