21st February, 2019

Minutes

PRE-BID MEETING FOR "INTEGRATED SPECIAL PURPOSE COMPUTING FACITLITY FOR GRAVITATIONAL WAVE RESEARCH at IUCAA

The Pre-bid meeting for procurement of Integrated Special Purpose Computing Facility for Gravitational Wave Research at IUCAA was held on 19th February, 2019 at 1500 hrs in Faculty lounge. The following members were present:

1. Mr. Yogesh Thakare
2. Mr. Ajay Vibhute
3. Dr. Deepak Bankar
4. Mr. B. V. Sawant
5. Ms. Sarah Ponrathnam

A total of 8 representatives from three bidders along with their OEM attended the meeting. The questions raised by the agencies were satisfactorily clarified by IUCAA. The queries with responses are enclosed in Annexure – I and the list of representatives present as Annexure – II.

B. V. Sawant   Ajay Vibhute   Deepak Bankar

         Yogesh Thakare   Sarah Ponrathnam

Annexure I
Following points were discussed in pre-bid meeting held on 19.02.2019 at 1500 hrs at Faculty lounge

Sr. No.	Name of the Agency	Tender condition	RFP Clause	Query	Clarification given by IUCAA
1	Mr. Deepak Nemade M/s. Concept Information Technologies (I) P. L. Pune-411038 E-mail- deepak_n@citilindia.com M.- 9011075754	Annexure I - Part1 - Point 5	The server management software should provide proactive notification of actual or impending component failure. Bidder should provide required hardware/software components, if any	Do we need to provide physical hardware only or Virtual machine based solution accepted? VM solution will be deployed using exiting Virtualization setup if available.	Yes. Physical hardware with below specification is required. **Minimum Server Configuration:** Intel® Xeon® Silver 4110 Processor 11M Cache, 2.10 GHz 8 cores, 32 GB RAM @2400 MHz, 2 X 1TB 7.2K RPM Nearline/ Midline SAS in Hardware RAID 1, 4 X 1G NIC, Rack Mountable 1U, RPS and Remote Management Capabilities.
2	Mr. Rohan Sathe Locuz Enterprises Solutions Ltd., Pune. E-mail- Rohan.Sathe@locuz.com Mb. 8554992365	Annexure 2, Point 20 in Optional Items to be quoted with 5 year comprehensive on-site warranty :	Multi GPU supported system under optional item ask against point no 20	Lenovo do not have offering currently to offer more than 2GPU supported Server. Request to you relax.	Please quote for what you have to offer since it is an optional item.

2	Mr. Rohan Sathe Locuz Enterprises Solutions Ltd., Pune. E-mail- Rohan.Sathe@locuz. com Mb. 8554992365	Annexure 2, Page 1	IUCAA wants to expand the existing 227 TF (Peak performance) CPU based High Performance Computing facility that uses 10G Ethernet as an Interconnect. The proposed system should be scalable using the same architecture and cooling method available at the site. The current uplink bandwidth is inadequate. Therefore 32 port 100 G ethernet core switch having the switching capacity of 6.4Tb/s with a landmark 4.77 bpps processing capacity in a compact 1RU form factor to be proposed along with required number of 25G switches to add additional 3680 CPU cores to the cluster.	IUCAA we assume is looking to expand existing setup which is in 10G but what is asked is 25G, is it an integration of new cluster to existing? Please Clarify details?	Yes. We need to integrate with existing cluster. Please ensure that your proposed solution should come with 25G ETH card.
		Annexure 2, Point 8	OEM should provide onsite support during maintenance window such as DC shutdown, power outage and firmware upgrade.	Request IUCAA to clarify How many such activities are expected in a given year?	If we take a planned shutdown, then everything comes up fine but during firmware upgradation onsite support is required. Also rarely in case of DC shutdown and power outage onsite support is required.

Mr. Rohan Sathe Locuz Enterprises Solutions Ltd., Pune. E-mail- Rohan.Sathe@locuz. com Mb. 8554992365	Annexure 2, Compute node specification	Each node should be configured with at least one free slot for an SSD and 1x 1TB @7200 RPM SATA / NL-SAS disk.	Request IUCAA to confirm Do we need to quote diskless node with disk bay to include one SSD and 1 qty of 1TB Disk.	Please quote with 1 * 1 TB disk nearline / midline SAS. However there has to be an additional slot for a SSD/SAS/SATA if required later.
	Additional query	Clarification required	Request IUCAA to suggest Can we quote Next Generation CPU that Cascade lake.	Yes, all bidders should provide Cascade lake. **Amendments in Annexure–II, PART-2, Point A-1, A-2, A-3 and also in F(Optional items)** are as below • **Each node should have 2 nos of Intel Xeon G-6248 (Cascade lake) (20 cores @ 2.5 GHz) or better.** • **Each node should be configured with 192GB memory module ECC DDR4 RDIMMs, 2933MHz or better. Each node should be configured with minimum 12 nos of dual rank DDR4 DIMMs. The node should have 16 DIMMs support for future expansion.**

		Additional query	Clarification required	Request IUCAA to please confirm if we have to quote for SLES 7 on all the nodes requested in Tender or only proposed Server is to be certified for SLES 7.	SLES is free. However all the proposed server should be certified for SLES 7 which is a variant of Red hat 7.
	Mr. Rohan Sathe Locuz Enterprises Solutions Ltd., Pune. E-mail- Rohan.Sathe@locuz. com Mb. 8554992365	Annexure 3, Point number 7	If the bidder happens to be a SI, the bidder should submit documentary evidence of purchase order (PO) for successful installation of distributed memory node cluster, with only CPUs, of at least 75 TF peak performance, in India at government organizations/research institutes in a single order. Please submit a copy of 3 such orders in the last 3 years i.e. from 1st January, 2016 onwards, with duly singed installation report with details of OEM engineer.	We Locuz do not have 3 PO copies along with Installation reports since 1st January 2016. Though we have supplies and installed HPC Clusters at couple of customer sites with more than doubled the size (75TF Only CPU's). Also we have some recent orders in hand with more than 200TF Systems but Installation process in still going on as those are recent orders. We request IUCAA to allow us to submit Order copies without installation reports which will not be more than 3 months old	Relaxation accepted. **Amendment in Annexure–III, point no 7** is as below: **"If the bidder happens to be a SI, the bidder should submit documentary evidence of purchase order (PO) for successful installation of distributed memory node cluster, with only CPUs, of at least 75 TF peak performance, in India at government organizations/research institutes in a single order. Please submit a copy of 2 such orders in the last 3 years i.e. from 1st January, 2016 onwards, with duly singed installation report with details of OEM engineer"**

| 3 | Mr. Sachin Danage Micropoint Computers Private Limited, Mumbai

Email: sachin@mpcl.in
Mb.: 9323757993

Query received through mail | Annexure 3, Point number 7 | If the bidder happens to be a SI, the bidder should submit documentary evidence of purchase order (PO) for successful installation of distributed memory node cluster, with only CPUs, of at least 75 TF peak performance, in India at government organizations/research institutes in a single order. Please submit a copy of 3 such orders in the last 3 years i.e. from 1st January, 2016 onwards, with duly singed installation report with details of OEM engineer. | we request you to relax it to 2 order from 1st January 2016 instead of 3 nos. | Relaxation accepted.

Amendment in Annexure–III, point no 7 is as below:

"If the bidder happens to be a SI, the bidder should submit documentary evidence of purchase order (PO) for successful installation of distributed memory node cluster, with only CPUs, of at least 75 TF peak performance, in India at government organizations/research institutes in a single order. Please submit a copy of 2 such orders in the last 3 years i.e. from 1st January, 2016 onwards, with duly singed installation report with details of OEM engineer" |

Tender for

Special Purpose Computing Facility for Gravitational Wave Research at IUCAA

Following representatives attended Pre-bid meeting on 19.02.2019 at 1500 hrs

Sr. No.	Name of the Agency	Name of Representative	Mobile No.	Sign
	Locuz. Ent. Sol. Ltd	Anand Raghoste	9657726626	
	Lenovo Global Technology	Anirudh Deshmukh	9861953644	
	~~Amit S. Rajput~~			
	HPE	Amit S Rajput	9881066032	
	HPE	Bibhu Dash	9764006010	
	HPE	Amit Tarar	9881460616	
	Concept	Deepak Nemade	9011675754	
	Netweb Tech	Veerendra Patil +1	7045598178	
	Netweb Tech	Chinmey Patil	9423423473	
	hpcmumb@netwebindia.com - HPC-MUMBAI			