Minutes

PRE-BID MEETING FOR " **SUPPLY, INSTALLATION, CONFIGURATION AND MAINTENANCE OF 200 TERABYTES (TB) USABLE UNIFIED STORAGE SOLUTION AT IUCAA, PUNE**" AT IUCAA

The Pre-bid meeting for Supply, Installation, Configuration and Maintenance of 200 terabytes (TB) Usable Unified Storage Solution at IUCAA, Pune was held on 22nd November, 2023 at 1000 hrs. in Bhaskara 1. The following members were present:

1. Mr. Yogesh Thakare
2. Mr. Prafull Barathe
3. Mr. Kumar Munnuswamy
4. Mr. V.P.Barve

Total five representatives from three different organizations attended the meeting. The questions raised by the agencies were satisfactorily clarified by IUCAA. The queries with response are enclosed in Annexure – I and the list of representatives present as Annexure – II.

Yogesh Thakare   Prafull Barathe   Kumar Munnuswamy   Vijay Barve

Annexure – I

Following points were discussed in Pre-Bid Meeting held on 22.11.2023 at 1000 hrs. in Bhaskara – 1.

Sr. No.	Party name	Tender Condition	Query	Response to Query by IUCAA
1	**M/s Pace Business Machines Private Limited** 401, Dosti Pinnacle, Plot No. E-7, Road No. 22, Wagle Indl. Estate, Thane (West) - 400 604. **Contact Person:** Rajnandini Chauhan **Mobile:** 9320012298 **Email:-** rajnandini.chauhan@pbmpl.com	Sr.No 8 - Bidder should have direct support offices in Pune and technically qualified engineers who have expertise in support and installations of the proposed product.	We request you to modify the clause as "Bidder/OEM should have direct support offices in Pune and technically qualified engineers who have expertise in support and installations of the proposed product. or Bidder should provide an undertaking that they will open within 30 days after receiving PO"	No change in RFP clause.
2	**Concept Information Technologies (I) Pvt. Ltd.** 101, Giridhar Avenue, Opp. Big Bazaar, Kothrud Pune- 411038. **Contact Person :** Mr. Ajay Koot **Mobile #** +91-90110-85109. **Email:** ajay_k@citilindia.com	A.3 Controller should have dual socket CPUs based upon latest generation of Intel family, minimum Skylake series, and should be supplied with at-least 32 numbers of CPU cores.	**Modification:** The controller should have dual socket CPUs based upon the latest generation of Intel family, minimum Skylake series, and should be supplied with at least 32 numbers of CPU cores and should be scalable to 64 cores either by adding controllers or upgrading controllers to higher models. **Justification: It is recommended to have at least 2x scalability of cores to ensure investment protection.**	No change in RFP clause.
		C.4 The proposed storage should be connected to the servers through SAN switches in High Available Configuration. All necessary cables for connecting the storage with switches are to be supplied.	Please specify the quantity and length of cables	Qty: 24 Nos Length: 5 Mtr. Bidder may carry out site survey for detailed information and clarification.
		D.3 The proposed storage solution should be configured to provide data protection against two simultaneous drive failures.	The proposed storage solution should be configured to provide data protection against two simultaneous drive failures for NLSAS and one drive failure for SSD/SAS drives. **Justification: It is recommended to have RAID 5 for SSD drives and RAID 6 for NLSAS drives as per industry best practices**	No change in RFP clause.

		F.1 The proposed storage solution should be supplied with 200 TB usable capacity and scalable upto 2 PB in a dual controller architecture. The required capacity should be supplied using 40 TB in SSD/NVMe SSD/NVMe SSD pool, using maximum of 4TB SSD/NVMe SSD & 160 TB in NL-SAS pool after RAID6 configuration using maximum of 16TB NL-SAS drives. License feature to enable policy-based tiering across SSD and SAS tier should be provided from day one.	**Modification:** The proposed storage solution should be supplied with 200 TB usable capacity and scalable up to 2 PB in a dual controller architecture. The required capacity should be supplied using 40 TB in SSD/NVMe SSD/NVMe SSD pool, using maximum of 4TB SSD/NVMe SSD in RAID 5 & 160 TB in NL-SAS pool after RAID6 configuration using maximum of 16TB NL-SAS drives. License features to enable policy-based tiering across SSD and SAS tier should be provided from day one. **Justification: It is recommended to have RAID 5 for SSD drives and RAID 6 for NLSAS drives as per industry best practices**	No change in RFP clause.
		H.6 Solution should be fully compatible with all standard backup software. IUCAA is using Dell EMC Data Domain 6800 backup infrastructure. Hence proposed solution should be fully compatible to Dell EMC Data Domain 6800. Must support tape drives/libraries like LTO-5/6/7/8/9 and VTL for backup/restore/archival purposes through NDMP protocol and should not flow on production LAN.	Please share details of the existing DD6800. What type of connectivity is configured?	DD6800 is connected over SAN/Fiber. Bidder may carry out site survey for detailed information and clarification.
		Price Schedule option	In the price bid submission column (INR) currency drop-down is not available.	Bidder should quote in USD only.
		Bid submission date.	Kindly request you to extend the tender submission date till 8th Dec 2023.	Accepted. Tender submission date is extended to 8th Dec 2023.
3	**M/s. Micropoint Computers Pvt. Ltd.** 202, Geetai Sankul, Ideal Colony, Paud road, Kothrud depo – 411038 **Contact Person :** Mr. Rahul Chaudhary **Mobile #** +91-9011075747 **Email:** rahul.c@mpcl.in	A.2 It should support all Block and File protocols natively OR by providing addon gateway/controllers in redundant configuration in the same cluster in active-active configuration with host connectivity for FC, iSCSI, CIFS and NFS.	It should support all Block, object and File protocols natively OR by providing addon gateway/controllers in redundant configuration in the same cluster in active-active configuration with host connectivity for FC, iSCSI, CIFS and NFS, S3 **Justification: Now days alongside Block & File, Object storage with S3 protocol is being used. Object storage is a data storage architecture that manages data as distinct units, known as objects. Each object contains the actual data, metadata, and a unique identifier. The metadata stored alongside the data can include information such as creation date, size, and custom attributes. This approach to data storage offers substantial benefits in terms of scalability, cost-efficiency, and ease of use. All OEMs has support / available feature of Object storage with S3 protocol.**	IUCAA's current requirement is not an object storage. However, bidder may propose the storage solution that supports block, file and object protocols that supports VMware workload. No change in RFP clause.

		B.1 The proposed unified storage must be offered with minimum 192GB cache memory across two controllers and scalable to 768GB or more across controllers, either by adding controllers or upgrading controllers to higher models.	The proposed unified storage must be offered with minimum ~~192GB~~ 256GB cache memory across two controllers and scalable to ~~768~~ GB 1 TB or more across controllers, either by adding controllers or upgrading controllers to higher models. **Justification : Higher cache is better , it gives more performance.**	Since we have asked for minimum 192GB Cache memory and scalable to 768GB or more, the solution with 256GB cache memory across two controllers and scalable to 1 TB or more across controllers is accepted. No change in RFP clause.
		B.4 The proposed solution must provide capability to use SSD/Flash as an extended/secondary cache currently it should support minimum of 1.2TB Flash/SSD Cache and scalable upto 4 TB in a single cache/tiering pool.	The proposed solution must provide capability to use SSD/Flash as an extended/secondary cache currently it should support minimum of ~~1.2TB~~ 2TB Flash/SSD Cache and scalable upto 4 TB in a single cache/tiering pool. **Justification: Higher cache is better , it gives more performance.**	No change in RFP clause. However, higher capability may be accepted.
		E.1 The proposed storage solution must support intermixing of SSD/NVMe SSD, SAS/NL-SAS drives to meet the capacity and performance requirements of the applications. The solution must support a minimum of 600 disks (min. 300 SSD disks and rest SAS/NL-SAS disks) in a dual controller architecture irrespective of any form factor i.e. 3.5" and 2.5" without any controller upgrade. Required hardware and software feature licenses to meet scalable capacity for all protocols should be offered from day one.	The proposed storage solution must support intermixing of SSD/NVMe SSD, SAS/NL-SAS drives to meet the capacity and performance requirements of the applications. The solution must support a minimum of ~~600~~ 720 disks (min. 300 SSD disks and rest SAS/NL-SAS disks) in a dual controller architecture irrespective of any form factor i.e. 3.5" and 2.5" without any controller upgrade. Required hardware and software feature licenses to meet scalable capacity for all protocols should be offered from day one. **Justification: 600 no. SSDs will be less. Suggest you to add more.**	No change in RFP clause. However, support for higher number of disks may be accepted.
		G.1 It should support industry standard Protocols like NFS, CIFS (SMB), FTP, FC and iSCSI etc and also support vVOLs.	It should support industry standard Protocols like NFS, CIFS (SMB), FTP, FC, S3 and iSCSI etc and also support vVOLs. **Justification: S3 protocol is recommended for Object storage feature.**	We do not require S3 protocol. No change in RFP clause.
		K.2 The proposed storage should have feature of Ransomware Protection from the disruptive activity. It should have necessary software natively integrated OR API supported or Third-party integrated.	K.2 The Storage should have the feature of Ransomware protection from the disruptive activity. It should have the necessary software integrated in it. **Justification: This is recommended to make the protect the storage system from the Ransomware attack.**	As per RFP, the clause is "The proposed storage should have feature of Ransomware Protection from the disruptive activity. It should have necessary software natively integrated OR API supported OR Third-party integrated." No change in RFP clause.

		This Feature is not asked in RFP. Addition suggested.	It should have the feature of multi admin validation for deleting the data. The deletion of the data has to be approved by the Storage administrator **Justification: This is required to avoid the deletion of data by any single person.**	This additional feature is not required. No change in RFP.
		Sr. No 4. The Bidder should be the Original Equipment Manufacturer (OEM) or their Level-1 (Top most) partner for supply, installation & support under the proposed product category in India for past three years.	The Bidder should be the Original Equipment Manufacturer (OEM) or their Level-1 (Top most) partner for supply, installation & support under the proposed product category in India for past three years.	As per RFP, the clause is "The Bidder should be the Original Equipment Manufacturer (OEM) or their Authorized partner for supply, installation & support under the proposed product category in India for past three years." No change in RFP clause.

Tender for Supply, Installation, Configuration and Maintenance of 200 terabytes (TB) Usable Unified Storage Solution at IUCAA, Pune.

Following representatives attended Pre-bid meeting on 22/11/2023 at 1000 hrs				
Sr. No.	Name of the Agency	Name of Representative	Mobile No.	Sign
1	Micropoint	Rahul Chaudhary	9011075757	
2	Micropoint	Harshad Deshmukh	7666090164	
3)	Ajay Koot Concept	Ajay Koot	9011085109	
4	Micropoint	Sachin Denuge	9323757993	
5)	Concept Info.	Prafulla Patil	9011075742	