

Prebid meeting of tender GEM/2023/B/3162618 dated 21/2/2023 held on 06 March 2023, for "Purchase of HPC cluster with 250 TB PFS along with cooling and UPC power backup system. "

| S.No. | RFP Page | RFP Clause                                         | RFP Clause Description                                                                                                                                                                                                                            | Request for clarification / Amendment                                                                                                                                                                  | IIG's response / Clarification                                                                                      |
|-------|----------|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| 1     | 7        | 3.1 Rack based closed loop Air-Conditioning /3.1.2 | Rack based Air Cooling unit should be of 7kW/2TR capacity in N+1 topology or in continuous operation of any/ all of the units to cater the IT load (03 nos. of 7kW rack-based cooling unit). The unit should take maximum 9U space of rack height | The IT Load mentioned is 20 kW whereas 7kW 03 no. Cooling unit has been asked in N+1 redundancy. Mentioned configuration will only deliver 14 kW against required 20 kW IT load which is insufficient. | N+1 redundancy should be maintained as mentioned in RFP.                                                            |
| 2     | 7        | 3.5 Rack & U Space / 3.5.1                         | 42 U racks of dimension minimum 800 mm x 1100 mm, 03 numbers                                                                                                                                                                                      | Pls confirm whether requirement is of 2 racks or 3 racks?                                                                                                                                              | Complete solution designing is in the scope of the bidder by meeting the technical specifications mentioned in RFP. |
|       |          |                                                    |                                                                                                                                                                                                                                                   | Kindly accept : 42 U/47U racks of dimension minimum 800 mm x 1100 mm, 03 numbers                                                                                                                       | As per the above, site inspection is encouraged during office hours on working days, contact: 022-27484188.         |
| 3     | 18       | (8) Bidder/OEM Eligibility/x                       | The critical components like Cooling unit, UPS and Rack unit should be from same & single bidder for better integration & service support.                                                                                                        | The critical components like Cooling unit, UPS and Rack unit should be from same & single <b>OEM</b> for better integration & service support. Kindly accept.                                          | Not agreed. As per the RFP.                                                                                         |

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| 4  | 4 | 2. Compute Nodes - configuration and management | Real-time out-of-band hardware performance monitoring & alerting                                                                                                                                                                                               | One of the bidders participated in the pre-bid meeting has requested to add health parameter to be monitored              | Agreed. The same can be read as "Real-time out-of-band hardware performance/health monitoring & alerting."                                                                                                                                         |
| 5  | 4 | 3                                               | Configuration and firmware drift detection                                                                                                                                                                                                                     | One of the bidders participated in the pre-bid meeting has requested to add drift or equivalent parameter to be detected. | Agreed. The same can be read as "Configuration and firmware drift or equivalent detection."                                                                                                                                                        |
| 5  | 5 | PFS storage                                     | 250 TB PFS storage with minimum read/write performance of 2GB/s; recovery should be within 24 hours in case of failure.                                                                                                                                        | One of the bidders participated in the pre-bid meeting has requested to add metadata information.                         | Agreed. The same can be read as "250 TB PFS storage with minimum read/write performance of 2GB/s; recovery should be within 24 hours in case of failure. Minimum 5% metadata on SSD with RAID 1 in addition to 250 TB storage should be provided." |
| 13 | 5 | Basic Performance and other Requirements:       | Servers incorporated in the system must be branded ones and only of one OEM make. The master, compute servers, storage system and Gigabit network switches must be from the same OEM to ensure homogeneity and seamless integration of the HPC infrastructure. | Requested modification                                                                                                    | Agreed. The same can be read as "Servers incorporated in the system must be branded ones."                                                                                                                                                         |

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| 13 | 6     | Basic Performance and other Requirements: | Server chassis should have LCD Panel to provide system information, status report and error messages to indicate the status of the server for ease of troubleshooting and maintenance.                                                                                                                      | Requested modification           | Not agreed. As per the RFP.                                                                                                                                                     |
| 13 | 8     | Basic Performance and other Requirements: | Hardware supplied shall support System lockdown mode to protect server configuration and firmware from malicious changes.                                                                                                                                                                                   | Requested modification           | Agreed. The same can be read as "Hardware supplied shall support System lockdown / firmware rollback mode to protect server configuration and firmware from malicious changes." |
| 13 | 10    | Basic Performance and other Requirements: | Hardware supplied shall support Secure Enterprise Key Management (SEKM) for drives.                                                                                                                                                                                                                         | Requested modification           | Agreed. The same can be read as "Hardware supplied shall support encrypted drives."                                                                                             |
| 13 | 12    | Basic Performance and other Requirements: | Hardware supplied shall support Secure System Erase.                                                                                                                                                                                                                                                        | Requested to remove this clause. | Agreed. This clause is treated as removed from RFP.                                                                                                                             |
| 17 | 7 (2) | Service Level Agreement                   | A. Commissioning - Within 15 days from the date of delivery<br>B. Documentation - 10 Days from date of commissioning<br>C. Training - a. Within 10 Days from date of commissioning, for site specific training.<br>b. Within 30 Days from date of commissioning, for user training on Intel OneAPI toolkit. | Requested modification.          | Agreed. The same can be read as "Commissioning, Documentation and Training should be completed with in 30 days from the date of delivery."                                      |

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| 17 | 8 | Bidder/OEM Eligibility | iv. OEM (HPC) brand should have minimum 10 entries in each of the last Five lists of Worldwide Top 500 Supercomputers (Ref: <a href="https://www.top500.org">https://www.top500.org</a> ) and OEM brand must have minimum 2 entries in each of the last Four lists of India Top supercomputer ( <a href="http://topsc.cdacb.in">http://topsc.cdacb.in</a> ) . | Requested modification as follows<br>"iv. OEM (HPC) brand should have minimum 10 entries in each of the last Five lists of Worldwide Top 500 Supercomputers (Ref: <a href="https://www.top500.org">https://www.top500.org</a> ) or OEM brand must have minimum 2 entries in each of the last Four lists of India Top supercomputer ( <a href="http://topsc.cdacb.in">http://topsc.cdacb.in</a> )." | Not agreed. As per the RFP.                         |
| 18 | 8 | Bidder/OEM Eligibility | xv. Smart rack OEM should have its own manufacturing facility in India for wide range of IT Rack, UPS & Precision air conditioning units to ensure high availability of the smart rack data centre. Supporting document/undertaking regarding the same to be submitted along with the bid.                                                                    | Request for removal of this clause.                                                                                                                                                                                                                                                                                                                                                                | Agreed. This clause is treated as removed from RFP. |
| 16 | 6 | Payment Terms          | i. 75% payment against delivery of materials and proof of warranty on the OEM website for the delivered components, on pro-rata basis.                                                                                                                                                                                                                        | Requested modification.                                                                                                                                                                                                                                                                                                                                                                            | Not agreed. As per the RFP.                         |