TENDER FOR SUPPLY, INSTALLATION, COMMISSIONING AND TESTING OF 07 NOS. OF SERVERS AND 02 NOS. OF STORAGE AT INFLIBNET CENTRE

No. INF/187/318/SERVER&STORAGE/2022

Information and Library Network Centre
सूचना एवं पुस्तकालय नेटवर्क केन्द्र
An Autonomous Inter-University Centre of UGC
विश्वविद्यालय अनुदान आयोग का स्वायत्त अंतर विश्वविद्यालय केन्द्र
Gandhinagar/ गांधीनगर-382007

Sr. No.	BID-DATA SHEET	
1.	Tender Number	INF/PUR/187/318/SERVER&STORAGE/2022
2.	Estimated Cost of Tender	Rs. 87,00,000/-
3.	EMD fees	Rs. 1,74,000/-
4.	Bid validity	120 days
5.	Issue of Tender Forms	Tender Documents can be downloaded from the Centre's website **www.inflibnet.ac.in** and Central Public Procurement Portal (CPPP) **https://eprocure.gov.in/eprocure/app**
6.	Tender Document Participation Mode	Online mode on CPPP e-Procurement module
7.	Contact Address	Shyam T Yadav, In-Charge – (P&S) INFLIBNET Centre, Infocity, PB No 04, Gandhinagar- 382 007 Phone: 079 23268143, shyam@inflibnet.ac.in INFLIBNET WEBSITE :www.inflibnet.ac.in

IMPORTANT DATES

Publish Date	04.11.2022	04:00 PM
Document Download / Sale start Date	04.11.2022	04:00 PM
Document Download / Sale end Date	28.11.2022	04:00 PM
Pre-Bid Meeting	14.11.2022	02:00 PM
Bid Submission Start Date	16.11.2022	02:00 PM
Bid Submission End Date	28.11.2022	04:00 PM
Bid Opening Date	29.11.2022	04:00 PM

CHAPTER 1: GENERAL INSTRUCTIONS FOR BIDDERS

1.1 **Eligibility Criteria:** The INFLIBNET has set up minimum eligibility criteria for the bidding purpose. All bidding parties must meet following criteria before they apply for the e-bid through online mode. The bidding parties meeting the criteria must enclose their supporting documents along with the proposal as mentioned at Annexure T-I, in orderliness of Technical Bid on CPP Portal (https://eprocure.gov.in/eprocure/app), failing which their bids will be summarily rejected and will not be considered any further.

1.2 **Period of Validity of Offer:**
   a) The Tender document shall be valid for a period of 120 days from the date of opening of tender.
   b) Extension of tender/Bid Validity, if any shall be decided by INFLIBNET Centre.
   c) Prior to the expiry of the original tender, INFLIBNET may request Bidders to extend the Bid Validity Period for a specified additional period.

1.3 **Submission of Bid:** INFLIBNET Centre invites online e-Tenders under Two Bid System i.e. Technical Bid (Annexure T-I) and Financial Bid (BOQ), in the prescribed Tender Document available on Central Public Procurement Portal (CPPP) (URL: https://eprocure.gov.in/eprocure/app) for the above cited subject. Tenderer must submit their bids well within the stipulated date & time and no opportunity shall be given to Tenderer to withdraw any offer at any stage after the submission of the bids.

   1.3.1 The tender document can be downloaded from Central Public Procurement Portal (URL: https://eprocure.gov.in/eprocure/app). Besides, Tender document reference can also be seen at INFLIBNET website (https://www.inflibnet.ac.in/tenders/). Prospective tenderers who have not enrolled/registered with aforesaid portal shall have to enroll/register themselves before participating through the website Central Public Procurement Portal (URL:https://eprocure.gov.in/eprocure/app). The authorized signatory of the tenderer shall possess Digital Signature Certificate (DSC) for submission of tender documents. The DSC holder/authorized signatory signing the tender shall state in what capacity he is/they are, signing the tender for e.g., as sole proprietor of the firm, or as a Secretary/Manager/Director etc.

   1.3.2 Any incomplete and conditional bids received shall not be considered and will be summarily rejected in the very first instance without any recourse to the bidder and shall not be evaluated. All entries in the bid form should be legible and filled clearly, otherwise the bid is likely to be rejected. If the space for furnishing information is insufficient, a separate sheet duly signed by the authorized signatory may be attached. The cuttings, if any, in the bid/bid application must be initialed by the person authorized to sign the bid.

   1.3.3 All supporting documents mentioned in Annexure T-I have to be scanned, encrypted and uploaded in Technical Bid at the requisite places in the CPP Portal system (URL:https://eprocure.gov.in/eprocure/app).

   1.3.4 Bids for this tender will be accepted through online mode only. Manual bids will not be accepted under any circumstances.

1.4 **Earnest Money Deposit (EMD):** The interested companies/firms shall submit the Earnest Money Deposit (EMD) of Rs. 1,74,000/- by speed post in the form of Demand Draft / Banker's Cheque / Fixed Deposit of any scheduled bank drawn in favour of "INFLIBNET Centre" payable at Gandhinagar. **The copy of the EMD submitted shall be attached with the tender document and uploaded on CPP portal.** No interest shall be payable by the Institute on EMD. The bid security is normally to remain valid for a period of forty-five days beyond the final bid validity period.

In exceptional circumstances, INFLIBNET may solicit firm's consent to extend the period of validity. The request and the response thereto shall be made in writing. The bid security shall also be suitably extended. A Firms granting the request is not required nor permitted to modify the TENDER.

Bank details for RTGS Payment:
Account Holder Name: INFLIBNET Centre
Bank Name: State Bank of India
Branch Name: Infocity Gandhinagar
Bank A/c Number: 10298781250
IFSC Code: SBIN0012700

Exemption in EMD will only be given to Startups recognized by DIPP and Micro and Small Enterprises (MSEs) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises (MSME) or are registered with the Central Purchase Organization or the concerned Ministry or Department. Evidence of documentary proof as MSME/Startup shall have to submitted, if applicable.

1.5 **Forfeiture of EMD:** EMD made by firms may be forfeited under the following conditions:

1.5.1   Non-acceptance the work order along with non-compliance of the terms and conditions.
1.5.2   Not furnishing performance security.
1.5.3   Violates any of the work conditions of this proposal or indulges in any such activities as would jeopardize the work.
1.5.4   Submitting false/misleading information/declaration/documents/proof/etc.
1.5.5   In the event of the successful firm/contractor failing to comply with any provision of the contract.
1.5.6   The successful Firms, on award of contract/ order must sign the contract in writing, within 30 days of award of contract/order, failing which the payment will not be made.
1.5.7   The decision of INFLIBNET regarding forfeiture of EMD shall be final and shall not be called upon to question under any circumstances. Besides, forfeiture of EMD, the firm may be even deferred from participating in any job.

1.6   Performance Security Deposit: The successful bidder shall have to deposit a Performance Security Deposit of 3% of the total amount of estimated tender value immediately on receipt of the LOI/Order. The performance security deposit will be furnished in the form of Demand Draft/ Bank Guarantee/Banker's Cheque/Fixed Deposit of any scheduled bank drawn in favour of "INFLIBNET Centre" payable at Gandhinagar. The performance security deposit should be valid for sixty days beyond the date of completion of warranty period of five years (total 62 months).

1.7   Pre Bid Meeting: Pre Bid Meeting will be held offline at the premises of INFLIBNET Centre on 15.11.2022 at 11:30 A.M. All such clarifications, together with all details on which the clarification had been sought will be uploaded on the e-Procurement portal. Such clarifications shall form part of the tender document. Only the queries received within the stipulated date and time prior to the pre-bid meeting will be entertained and answered. Bidder can send their queries to the concerned authority. In case, if the pre-bid meeting is convened online, the link for the meeting will be made available on the INFLIBNET website on the day of pre-bid meeting as per the schedule.

The Bidder/OEM is expected to have visited the site before pre-bid meeting or submitting tender documents so as to have a fair idea of the location for installation of equipment at the Centre. The costs incurred by the Bidder/OEMs in making this offer, in providing clarification or attending discussion, conferences or site visits will not be reimbursed by INFLIBNET.

For Technical Queries regarding the concerned requirement:

For Table No. 1 – Shri. Raja V, Scientist – C (CS)
Contact No: 079-23268325
Contact Email: raja@inflibnet.ac.in

For Table No. 2 – Shri. Kannan P, Scientist – E (LS)
Contact No: 079-23268281
Contact Email: kannan@inflibnet.ac.in

For Table No. 3 – Shri. Gaurav Prakash, Scientist – C (CS)
Contact No: 079-23268221
Contact Email: gaurav@inflibnet.ac.in

For Table No. 4, 5 & 5(A) – Dr. Abhishek Kumar, Scientist-E (CS)
Contact No: 079-23268280
Contact Email: abhishek@inflibnet.ac.in

For Table No. 6 & 6(A) - Shri. Manoj Kumar K., Scientist-E (CS)
Contact No: 079-23268220
Contact Email: manoj@inflibnet.ac.in

For Commercial:
Shri Shyam T Yadav, In-Charge (Purchase & Store)
Contact No: 079-23268143
Email: shyam@inflibnet.ac.in

Note: A Copy of all the mail queries should be marked to shyam@inflibnet.ac.in

1.8 **Technical Bid Opening:** The Technical Bids will be opened online on CPP Portal as per schedule indicated in the tender. The tenderer can view the bid opening event online at their remote end.

1.9 **Price Bid:** The price/financial bids (BOQ) will be opened online on the scheduled time and date at INFLIBNET Centre, Infocity, Gandhinagar. The Price/Financial Bid format (BOQ) is provided in a spread sheet file, which has to be downloaded from https://eprocure.gov.in/eprocure/app and the rates offered should be entered in the allotted space and uploaded after filling the relevant columns (such as rates & particulars of the bidder).

    1.9.1   The financial bids shall be opened online only of technically qualified bidders whose bids have been found eligible as per the criteria mentioned in the technical bid Annexure – T-I. All eligibility conditions have to be satisfied on the respective dates in such condition and not on a later date.

    1.9.2   The Price Bid/BOQ template shall not be modified/replaced by the tenderer; else the tender submitted is liable to be rejected.

1.10 **Bid Evaluation Criteria & Award Criteria:**

    1.10.1   After the opening of the technical bid, the same will be evaluated by the Centre. In case, the Centre decides to seek further information/clarification, the same shall be provided by the bidder. Those bids which are technically qualified as per the pre-qualification criteria and completed in all aspects with all annexures and meeting the requirement as specified in Annexure T-I, duly marking all the fields of the compliance sheet, the financial bid of such qualified bidders will be opened on a specified date and time by the Centre. The date and time of opening of financial bids will be intimated to the technically qualified bidders well in advance through email and/or displayed on the CPPP.

    1.10.2   The contract will be awarded for technically suitable and overall lowest evaluated bidder whose bid has been found to be responsive and who is found eligible and qualified as per the tender document. In case, two or more agencies are found to have quoted the same rates, the Competent Authority of INFLIBNET shall decide the bidder to which the offer shall be granted based on the report of length of experience as mentioned in the submitted documents etc. The decision of the Competent Authority of INFLIBNET shall be final. The Competent Authority of INFLIBNET is not bound to accept the lowest bidder or any bidder if found any technical discrepancies in the tender. The Authority reserves the right of accepting the whole or any part of the tender. The decision of the authority in this regard shall be final and binding on the firm.

    1.10.3   The Bidder should quote for all the items. Partial offers will be rejected. The lowest offer (L1) will be computed based on the total value of the order. Order will not be split across Bidders.

1.11 **Time Schedule for delivery and installation:** All delivery of the material will have to be completed within 90 days from the date of commencement of work/contract. All activities leading to the commissioning as per Scope Of Work Chapter - 3 of the tender and issued order to be completed within 120 days from the date of commencement. **Date of commencement of work/contract shall be either one-week from the date of issued work order or the day on which the Bidder/OEM will take possession of site, whichever is earlier.**

1.12 **Liquidated Damage:** The job includes the supply and installation of materials mentioned in the tender document. In the event of failure to meet the job completion in stipulated date/time, liquidated damage may be imposed on the Bidder/OEM for sum not less than 0.5% of the contract value for that item/ job for each week or part thereof, subject to a ceiling of 5% of the total contract value/tender amount (including all taxes & duties and other charges). In the event of LD exceeding 5% of the order value, INFLIBNET reserves the right to terminate the contract and INFLIBNET will get the job completed by any other competent party. The difference of cost incurred by INFLIBNET will be recovered from the Bidder/OEM.

1.13 **Virtual completion:** The virtual date of completion will be the date on which the work is completed in all respects as laid out in the contract and performance of the system accepted by the concerned officers of the INFLIBNET.

1.14 **Warranty:** Comprehensive onsite warranty should be 05 (five) years including Spare Parts etc. from the date of final satisfactory working demonstration certified by the respective users. Minimum three-visits of service engineer is required per annum or as & when necessary. No expenditure (either for repairs and replacement of consumable and /or non-consumable parts or custom clearance) will be borne by the INFLIBNET Centre during warranty period, however required documents will be provided. All the supplied items should be covered under warranty period. The warranty charges shall not be quoted separately otherwise the offer shall be summarily rejected.

1.14.1 The entire equipment/system shall be warrantied to be free from defective workmanship or materials, and any defects that may appear within 60 months (Five years) from the date of issue of completion certificate for the work, which in the opinion of the INFLIBNET have arisen from bad workmanship or materials, shall upon intimation by the INFLIBNET, be made good by the Bidder/OEM at his own cost within the time specified.

1.14.2 If any manufacturing or other technical defects are found in any equipment which gives continuous trouble and malfunctioning during the warranty period, the Bidder/OEM shall replace the same with new equipment without any additional cost to the purchaser.

1.14.3 Free maintenance services shall be provided by the Bidder/OEM during the period of warranty.

1.15 **Defect liability period (DLP):** The Defects Liability Period shall be for a period of 05 (Five) years and shall commence from the date of virtual completion. Any defect that may appear within the Defects Liability Period, shall be rectified by the Bidder/OEMs without any extra cost to the INFLIBNET. In case of failure to do so within 10 days from such notice from the INFLIBNET, the INFLIBNET may get such rectification work carried out through any other firm and expenditure incurred by the INFLIBNET and that shall be recovered at the cost and risk of the Bidder/OEM. Only, after all the defects pointed out during the Defects Liability Period have been satisfactorily rectified by the Bidder/OEM, Security Deposit release will be considered. In addition to the calls received from the INFLIBNET, the Bidder/OEM will have to make compulsory visits for checking the system and for preventive maintenance.

1.16 **Penalty for delay in service during defect liability period (DLP):** During the DLP, all care shall be taken by the Bidder/OEM so that the downtime of the system is kept minimum, and in any case, not more than the allowed time for attending to repairs is consumed. Any defects shall be repaired within 48 hours from the time of reporting a complaint in writing (complaints through SMS, e-mails, etc. shall also be treated as complain in writing). Any defects in any supplied items leading to complete breakdown of the system, shall be repaired within 24 working hours from the time of reporting complaint in writing. Any defects/ problems associated with the software shall be attended to immediately, but not later than 24 hours from the time of the problem being noticed/ reported. If the down time exceeds the above mentioned period, penal recovery shall be made from the payments due to the Bidder/OEM at the following rates:

- Per day excluding date of lodging of complaint : Rs. 2,000/- per day
- Penalty of 0.5% of the cost of the equipment will be charged every quarter if, the Preventive Maintenance is not done by tenderer. Penalty will not be charged for the quarter in which the machine has been delivered/ installed.

1.17 **Deletion of items:** The tender rates shall be fixed and applicable for any increase or decrease in the tendered quantities. The INFLIBNET can increase or decrease any quantities to any extent or even delete particular item as per requirements and the Bidder/OEM shall not be paid anything extra on this account. Nothing extra will be paid by the INFLIBNET on account of omission / deletion of items or decrease in the quantity of items. The INFLIBNET shall not entertain any claim whatsoever from the Bidder/OEM on this account.

1.18 **Terms of Payment:**

1.18.1 100 % payment will be released to the Bidder/OEM after successful completion of the supply/delivery, successful installation, commissioning and submission of performance bank guarantee subject to issue of Final Acceptance Certificate, by e-transfer through RTGS/ NIFT. No advance payment will be made. The Bidder/OEMs should provide their bank details duly signed by authorized signatories.

1.18.2 The agency will submit a bill with delivery challan, in the name of INFLIBNET Centre. The bill submitted by the bidder should be duly certified by the concerned officer of publication division of INFLIBNET Centre. The payment will be made through RTGS/NEFT by e-transfer on submission of bill and after completion of the work successfully. During the currency of contract, no increase in rates will be allowed for hike in the rates whatsoever. Bidders should provide their bank details duly signed by authorized signatories. No advance payment will be made.

1.18.3 Invoice (i.e. Tax invoice as per GST, Service Tax rules clearly indicating Tax registration number, Service Classification, rate and amount of GST, Service Tax shown separately).

1.18.4 The Centre will deduct Income tax at source under Section 194-C of Income Tax Act from the renderer at the prevailing rates of such sum as income tax on the income comprised therein. All Taxes per applicable rules at time to time will be deducted at applicable rates from all payments made by INFLIBNET Centre.

1.18.5 No claim for interest will be entertained by the Centre in respect of any payment which will be held with the Centre due to dispute between the Centre & Contractor or due to delay for the reasons beyond the control of the Centre.

1.19 **Termination of Contract:** In case of any default by the bidder and in case of any violation of the terms and conditions of this tender document or in case of non-satisfactory performance during the warranty period, INFLIBNET may without prejudice to any other right/remedy which shall have accrued or shall accrue thereafter, terminate the contract, in whole or in part, by giving one month notice in writing to the vendor. In such a case the Security Deposit paid by the contractor will be forfeited to INFLIBNET and the contractor is liable to be blacklisted for a period of 3 Years. Where a contract terminated by INFLIBNET on account of the default committed by the Agency/Firm, it shall have the right to award the contract to any other Agency/Firm at the cost, risk and responsibilities of contract and excess expenditure incurred on account of this will be recovered by INFLIBNET from his security deposit or pending bill or by raising a separate claim. Notwithstanding anything contained herein, INFLIBNET also reserves the right to terminate the contract at any time or stage, by giving one month notice in writing without assigning any reason and without incurring any financial liability whatsoever to the contractor.

1.20 **Amendment of Bid Document:** At any time prior to the deadline for submission of proposals, INFLIBNET Centre reserves the right to add/modify/delete any portion of this document by issuance of a Corrigendum, which would be published on the Centre's website www.inflibnet.ac.in and Central Public Procurement Portal (CPPP) https://eprocure.gov.in/eprocure/app. The Corrigendum shall be binding on all Firms and will form part of the tender documents.

1.21 **Enforcement of Terms:** The failure of either party to enforce at any time, any of the provisions of this contract or any rights in respect thereto or to exercise any option herein provided shall, in no way, be construed to be a waiver to such provisions, rights or options or in any way affect the validity of the contract. The exercise by either party, of any of its rights, herein shall not preclude or prejudice either party from exercising the same or any other right it may have hereunder.

1.22 **INFLIBNET Right to reject any of all bids:** The Competent Authority of INFLIBNET reserves the right to reject any bid and to annul the bidding process and reject all bids at any time, without assigning any reason, prior to award of contract without thereby incurring any liability to the affected bidder(s) or any obligation to inform the affected bidder(s) off the grounds for such decision. Any effort by a bidder or bidder's agent / consultant or representative, whosoever described to influence the INFLIBNET in any way concerning scrutiny / consideration / evaluation / comparison of the bid or decision concerning award of contract shall entail rejection of the bid.

1.22.1 The Competent Authority of the INFLIBNET reserves the right to annul bids or discontinue this tender process, without assigning any reason, at any time prior to signing of agreement with the successful bidder.

1.22.2 By acceptance of this document, the recipient agrees that any information herewith will be superseded by any subsequent written information on the same subject made available to the recipient with access to any additional information or to update this document or to correct any inaccuracies, therein, which may become apparent, and INFLIBNET reserves the right at any frame of time and without advance notice, to change the procedure for the selection of Agency/Firm.

1.23 Resolution of Disputes:

1.23.1 If any dispute arises between the parties hereto during the subsistence or thereafter, in connection with the validity, interpretation, implementation or alleged material breach of any provision of the Agreement or regarding a question, including the questions as to whether the termination of the Contract Agreement by one party hereto has been legitimate, both Parties hereto shall endeavor to settle such dispute amicably. The attempt to bring about an amicable settlement is considered to have failed as soon as one of the parties hereto, after reasonable attempts, giving one month's notice period.

1.23.2 In the case of such failure, the dispute shall be referred to a sole arbitrator or in case of disagreement as to the appointment of the sole arbitrator to three arbitrators, two of whom will be appointed by each Party and the third appointed by the two arbitrators.

1.23.3 The place of the arbitration shall be Gandhinagar, Gujarat. The proceedings of arbitration shall be in English language. The arbitrator's award shall be substantiated in writing. The arbitration tribunal shall also decide on the costs of the arbitration procedure.

1.23.4 The parties hereto shall submit to the arbitrator's award and the award shall be enforceable in any competent court of law.

1.24 **Indemnity Bond:** The contractor shall keep INFLIBNET Centre and all officials of this office indemnified from and against all suits, losses, claims, demands, proceedings, and liability of any nature or kind including costs and expenses, injuries to any person, damages to any property whatsoever, levy of fees or consequences which they

may be put to or suffer on account of the services undertaken by the contractor. The Contractor shall keep the INFLIBNET Centre and all officials of this office indemnified from and against all suits, losses, claims, demands, proceedings, and liability of any nature brought or instituted against them by any of contractors' employees or any other third party in connection with, relating to or arising out of the performance of the services or non- compliance, deficiency, non- implementation of various provisions of statutory requirements.

1.25 **Agreement:** The Agency/Firm will have to enter into a written Agreement with this Centre immediately on intimation of acceptance of order and before initiation of services at the Centre.

1.26 **Splitting of the contract and curtailment of work:** The Agency/Firm shall refrain from awarding the services to another Agency/Firm for any particular item and avoid splitting of work.

Authorized Signatory (signature in full): _____

Name and Title of Signatory: _____

Company Rubber Stamp: _____

Chapter-2: Special Terms and Conditions

1. **Evaluation criteria for bidders:** The following shall submit with documentary proof for technical evaluation:
   a. Average annual turnover of the Bidder for the last three financial years ending 2021-22 should be at least Rs. 44 lakh. Startup will be considered as per applicable rule/law. If any bidder enlisted under NSIC/ (under relevant NIC & Activity)/ Startups are interested in participating in the tender, they may participate subject to fulfilment of the conditions of this tender notice.
   b. The Bidder should not have incurred any loss in more than 2 years during last 5 financial years ending 2022.
2. Bids with the following conditions will not be considered for technical evaluation:
   a. The suppliers who are currently debarred/blacklisted from participating in the tender either in the government departments or in the public sector undertakings.
   b. Suppliers who have not furnished the required information in spite of giving the opportunity.
   c. Suppliers who have furnished incorrect or misleading information.
3. Bidders must be authorized sales and service partners for the concerned OEM. Relevant documents/certificates towards proof of authorization on part of OEM must be attached /enclosed at Annexure-VIII for the items specified in the Scope of work.
4. The offered products/items to be supplied should meet all the requirements specified in technical specs.
5. Bidder should provide complete documentation in English about the product being quoted such as technical brochures as proof of compliance to specifications. Just mentioning 'complied' against each specification will not be considered sufficient in the absence of supporting documentation and such offers are liable to be summarily rejected.
6. The Bidder should submit compliance (point-wise agreement) statement against each part of the detailed specs specified. Offers that do not comply to any of the technical specifications for any item will be summarily rejected in totality.
7. The Bidder should mention the complete make / model numbers of all the critical components such as processors, memory modules, NVMe, SSD, HDD in the offer. Specifications of each should be verifiable from websites of respective manufacturers.
8. **The power & cooling requirements for the servers shall be clearly indicated in the offer.**
9. All the hardware specifications mentioned are the required minimum. Items with higher or better individual specifications are also acceptable.
10. Purchaser reserves the right to visit the Bidder's premises in order to verify infrastructure and expertise available with the Bidder.
11. All of the items should be brand new (not older than 1 year from the date of purchase order).
12. No End User License Agreement (EULA) or any such certificate declaring the use of server will be provided. Any offer requiring any such document is liable to be summarily rejected.
13. Post Supply inspection in respect of supplies made is not permitted. Any offer containing the condition of post supply inspection will be out-rightly rejected. It is, therefore, mandatory for the bidders, while quoting to indicate in clear terms the requirement of post supply inspection by any outside agency.
14. Bidder should be prepared to furnish a listing of serial numbers of all the components in each server as well as other individual components being supplied. They should provide this listing along with the shipment.
15. Taxes, duties to be paid or included in the offer should be clearly mentioned.
16. **Acceptance Criteria:** For final acceptance, functional testing of all hardware will be done by the user after the installation is over. **Each system should give a sustained performance of minimum 60% of the peak theoretical performance.** After the completion of hardware functionality testing, integration of all the systems along with all supplied network components will be tested and its working has to be demonstrated.
17. **Preference to Make In India products (For bids < 200 Crore):** Preference shall be given to Class-I local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class-I local supplier is equal to or more than 50%. The minimum local content to qualify as a Class-II local supplier is equal to or more than 20% and less than 50%. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value

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addition is made along with their bid, failing which no purchase preference shall be granted. **Only Class-I and Class-II Local suppliers as per MII order dated 04.06.2020 will be eligible to bid for Table No. 01, 02, 03, 04, 05 & 06. MII Exemption will be granted to Table 5(A) & 6(A).**

18. **Purchase preference to Micro and Small Enterprises (MSEs):** Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% (Selected by Buyer)of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for 25%(selected by Buyer) percentage of total QUANTITY.

Authorized Signatory (signature in full):_____

Name and Title of Signatory: _____

Company Rubber Stamp: _____

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SCOPE OF WORK

01 No. of Server		Compliance (YES/NO)	Remarks
Table-1			
Chassis	2 U Rack Mountable - Dual Socket Server		
CPU	Dual Processor of In Min 2.6GHz / 16-core / 48MB Cache		
CPU L3 CACHE Memory	L3 cache depending upon processor model chosen		
Motherboard	OEM Motherboard		
Memory	512 GB DDR4 DIMMS using 8 x 64 GB DDR4 memory 32 DIMM slots total. Should Support Memory Encryption		
HDD Bays	8 HDD bays scalable up to 24 SFF HDD/SSD The drive carrier should have a visual indicator which contains 'Do Not Remove' or similar which gets activated automatically to prevent data loss/downtime due to wrong drive removal.		
Hard disk drive	4 x 1.92TB SSD Hot Plug SFF drives		
Controller	• PCIe 3.0 based 12Gb/s SAS Raid Controller with RAID 0/1/1+0/5/50/6/60/1 Advanced Data Mirroring/10 Advanced Data Mirroring with 2GB batte+A1ry backed write cache (onboard or on a PCI Express slot)		
	• Storage controller should support Secure encryption/data at rest Encryption		
Networking features	The server should have the below networking cards: 1. 1Gb 4-port network adaptors 2. 10GBaseT **2-port** Ethernet adaptor Infiniband support Options: 40Gb dual-port or 100Gb Single or Dual-port Adapter		
Interfaces	Serial – 1, Micro SD slot – 1, USB 3.0 support With Up to 5 total with at least 1 front, 2 rear and 1 internal.		
Bus Slots	Six PCI-Express 3.0 slots, at least two x16 PCIe slots		
Power Supply	Should support hot plug redundant low halogen power supplies with minimum 94% efficiency		
Fans	Redundant hot-plug system fans		

Tender for Servers and Storage at INFLIBNET Centre, Gandhinagar

Industry Standard Compliance	- ACPI 6.1 Compliant - PCIe 3.0 Compliant - PXE Support - WOL Support - Microsoft® Logo certifications - USB 3.0 Support - USB 2.0 Support - Energy Star - ASHRAE A3/A4 - UEFI (Unified Extensible Firmware Interface Forum)+B23		
System Security	- UEFI Secure Boot and Secure Start support - Security feature to ensure servers do not execute compromised firmware code - FIPS 140-2 validation - Common Criteria certification - Configurable for PCI DSS compliance - Advanced Encryption Standard (AES) and Triple Data Encryption Standard (3DES) on browser - Support for Commercial National Security Algorithms (CNSA) mode to prevent the use of insecure algorithms - Tamper-free updates - components digitally signed and verified - Secure Recovery - recover critical firmware to known good state on detection of compromised firmware - Ability to rollback firmware - Secure erase of NAND/User data - TPM (Trusted Platform Module) 1.2 option - TPM (Trusted Platform Module) 2.0 option - Bezel Locking Kit option - Chassis Intrusion detection option		
Operating Systems and Virtualization Software Support	Microsoft Windows Server Red Hat Enterprise Linux (RHEL) VMware		
GPU support	The system should support latest computational accelerators and graphics accelerators		
System tuning for performance	The system should support features for improved workload throughput for applications sensitive to frequency fluctuations. This feature should allow processor operations in turbo mode without the frequency fluctuations associated with running in turbo mode The system should support workload Profiles for simple performance optimization		
Secure encryption	The system should support Encryption of the data (Data at rest) on both the internal storage and cache module of the array controllers using encryption keys. Should support local key management for single server and remote key management for central management for enterprise-wide data encryption deployment.		
Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response.		

Tender for Servers and Storage at INFLIBNET Centre, Gandhinagar

Provisioning	• Should support tool to provision server using RESTful API to discover and deploy servers at scale • Provision one to many servers using own scripts to discover and deploy with Scripting Tool (STK) for Windows and Linux or Scripting Tools for Windows PowerShell		
Firmware security	• For firmware security, the system should support a remote management chip creating a fingerprint in the silicon, preventing servers from booting up unless the firmware matches the fingerprint. This feature should be immutable • Should maintain a repository for firmware and drivers recipes to aid rollback or patching of compromised firmware. Should also store Factory Recovery recipe preloaded to rollback to factory tested secured firmware		
Embedded Remote Management and firmware security	• System remote management should support browser-based graphical remote console along with Virtual Power button, remote boot using USB/CD/DVD Drive. It should be capable of offering an upgrade of software and patches from a remote client using Media/image/folder; It should support server power capping and historical reporting and should have support for multi-factor authentication • The server should have a dedicated 1Gbps remote management port • Remote management ports should have storage space earmarked to be used as a repository for firmware, drivers and software components. The components can be organized into install sets and can be used to rollback/patch faulty firmware • The server should support agentless management using the out-of-band remote management port • The server should support monitoring and recording changes in the server hardware and system configuration. It assists in diagnosing problems and delivering rapid resolution when system failures occur • Applications to access the server remotely using popular handheld devices based on Android or Apple IOS should be available • Remote console sharing up to 6 users simultaneously during pre-OS and OS runtime operation, Console replay - Console Replay captures and stores for replay the console video during a server's last major fault or boot sequence. Microsoft Terminal Services Integration, 128 bit SSL encryption and Secure Shell Version 2 support. Should provide support for AES and 3DES on the browser. Should provide remote firmware update functionality. Should provide support for Java-free graphical remote console. • Should support managing multiple servers as one via • Group Power Control • Group Power Capping • Group Firmware Update • Group Configuration+B28 • Group Virtual Media • Group License Activation • Should support RESTful API integration • System should support embedded remote support to transmit hardware events directly to OEM or an authorized partner for automated phone home support		

Tender for Servers and Storage at INFLIBNET Centre, Gandhinagar

	Table-2		
01 No. of Server		**Compliance (YES/NO)**	**Remarks**
Form Factor	Rack		
Size (RU)	1		
Processor Make	Intel		
Number of sockets available on chipset	2		
Number of sockets populated with processor	2		
Number of core per Processor	24 or higher		
Processor Configuration	Dual Processor of In Min 2.6GHz / 16-core / 48MB Cache		
Chipset compatible with CPU	compatible to processor		
Availability of Co-Processor	No		
If Yes Co-Processor Configuration	NA		
PCI Slots (Express Gen 3.0)	3		
Type of RAM	DDR4		
RAM Size (GB)	256 or higher		
RAM upgradable upto (GB)	1500		
DIMM Slots (No.)	24 or above		
Type of Hard Disk Drive	SAS		
Hard disk drive Capacity (GB)	3TB or 2*1.92TB SSD SAS		
Type of Storage	SSD (SAS)		
RAID Controller Cache (MB)	2048 or higher		
RAID Type	5/6		
RAID Controller Ports	8 or higher		
Video Controller (support VGA or above resolution)	Yes		
Keyboard	No		
Mouse	No		
Bays (min. 2 internal or more hot plug)	8		
USB Ports	4		
Certifications Compliance support by Windows, Red Hat or Novell or Oracle Cluster or Linux or AIX S/W	Yes		
DVD ROM	NA		
Network Card Supported	1Gx2, 10Gx2		
Management Ports	Remote Management Console (KVM) Console, Should support virtual media, OS Operations, Power ON-OFF, Performance Monitoring with Licence.		
Power Management	Screen blanking & hard disk (general features like screen time out and HDD indications) & system idle mode in power on, set up password, power supply surge protected		
Redundant Power Supply	Yes		
Power Supply Efficiency	Platinum or above		
Redundant Fan	Yes		
Total No of Ports	2 X 1G ,2 x10 G Base T		
Server scalability to be achieved within the box without adding nodes	Yes Only for memory		
RoHS Compliance	Yes (Only for memory /disk / ports)		
Power Supply	230 V +/-10%, 50 Hz		
On Site OEM Warranty (years)	**5**		

Tender for Servers and Storage at INFLIBNET Centre, Gandhinagar

		Table-3
02 Nos. of Servers	**Compliance (YES/NO)**	**Remarks**
Form Factor	Rack		
Size (RU)	1		
Processor Make	Intel /AMD		
Number of sockets available on chipset	2		
Number of sockets populated with processor	2		
Number of core per Processor	08 or higher		
Processor Configuration	Only Latest Generation Processor (Total Cache – min. 12MB, mimimum 2.8 Ghz) or higher		
Chipset compatible with CPU	compatible to processor		
PCI Slots (Express Gen 3.0)	3		
Type of RAM	DDR4 (2600 MHz) or Higher		
RAM Size (GB)	32 or higher		
RAM upgradable upto (GB)	256		
DIMM Slots (No.)	24		
Type of Hard Disk Drive	SAS		
Hard disk drive Capacity (TB)	2 x 1.2 TB (in RAID 1) 10K RPM or higher		
Type of Storage	HDD (SAS) or higher		
RAID Controller Cache	2GB or higher		
RAID Type	RAID 1		
RAID Controller Ports	8 or higher		
Video Controller (support VGA or above resolution)	Yes		
Keyboard	No		
Mouse	No		
Bays (min. 2 internal or more hot plug)	8		
USB Ports	4		
Certifications Compliance support by Windows, Red Hat or Novell or Oracle Cluster or Linux or AIX S/W	Yes		
DVD ROM	NA		
Network Card Supported	Base T, 1G x 2 or higher		
Management Ports	Integrated remote server management /Remote Management Console (KVM) Console, Should support virtual media, OS Operations, Power ON-OFF, Performance Monitoring with (perpetual)Licence.		
Power Management	Screen blanking & hard disk (general features like screen time out and HDD indications) & system idle mode in power on, set up password, power supply surge protected		
Redundant Power Supply	Yes		
Power Supply Efficiency	Platinum or above		
Redundant Fan	Yes		
Total No of Ports	BASE T, 1G x 2 or higher , dedicated port for integrated remote server management		
Server scalability to be achieved within the box without adding nodes	Yes		
RoHS Compliance	Yes		
Power Supply	230 V +/-10%, 50 Hz		
On Site OEM Warranty (years)	5		

Specification	Sub-specification	Value	Compliance (YES/NO)	Remarks
		Table-4		
		01 No. of Server		
Chassis	Form factor	Rack		
	Size (RU)	1		
Processor	Processor architecture	CISC (X86)		
	Processor make	Intel		
	Number of cores per processor	16		
	Processor base frequency	2.3		
	Processor Turbo frequency (GHz)	3.9		
	Total Cache (L1+L2+L3) (MB)	22		
	Processor Description/ Number	Dual Processor of In Min 2.6GHz / 16-core / 48MB Cache		
Motherboard	Chipset compatible with Processor	Intel C621		
	Expansion Slots Gen 3 (PCIe x1)	0		
	Expansion Slots Gen 3 (PCIe x4)	0		
	Expansion Slots Gen 3 (PCIe x8)	1		
	Expansion Slots Gen 3 (PCIe x16)	1		
	Maximum number of Sockets available on Server	2		
	Maximum number of Sockets populated with Processors available on Server	2		
Co-processor/ GPU	Availability of Co-processor/GPU	No		
	If yes, maximum number of slots available for Co-processor/GPU	0		
	If Yes, Maximum Number of slots populated with Coprocessor/GPU	0		
	If Yes, Co-Processor /GPU Description	NA		
Memory	Type of RAM	DDR4 SDRAM with ECC		
	Total Number of DIMM Slots available	24		
	Number of DIMM Slots populated with DDR SDRAM	4		
	Number of DIMM Slots populated with DDR NVRAM	0		
	DDR SDRAM Size(GB)	128		
	DDR NVRAM Size (GB)	0		
	DDR SDRAM upgradable upto using spare DIMM Slots (GB)	640		
	DDR NVRAM upgradable upto using spare DIMM Slots (GB)	0		
SSD Storage	Type of Interface for SSD	NA		

	Type of SATA SSD	NA		
	SATA SSD Hot Swappable	NA		
	Endurance for SATA SSD (DWPD - Drive Writes Per Day) (X)	0		
	Total Number of Slots available for SATA SSD	0		
	Number of Slot Populated with SATA SSD	0		
	Capacity offered per SATA SSD (GB)	0		
	Total Capacity Offered with SATA SSD (GB)	0		
	Type of SAS SSD	NA		
	SAS SSD Hot Swappable	NA		
	Endurance for SAS SSD (DWPD - Drive Writes Per Day) (X)	0		
	Total Number of Slots available for SAS SSD	0		
	Number of Slots populated with SAS SSD	0		
	Capacity Offered per SAS SSD (GB)	0		
	Total Capacity Offered with SAS SSD (GB)	0		
	Type of NVMe SSD	NA		
	NVMe SSD Hot Swappable	NA		
	Endurance for NVMe SSD (DWPD - Drive Writes Per Day) (X)	0		
	Total Number of Slots available for VMe SSD	0		
	Number of Slots populated with NVMe SSD	0		
	Capacity Offered per NVMe SSD (GB)	0		
	Total Capacity Offered with NVMe SSD (GB)	0		
HDD Storage	Type of interface for HDD	SAS		
	Total no. of slots available for SATA drive	8 (Total bay will be 8)		
	Number of Slots populated with SATA Drive	0		
	Capacity offered per SATA Drive (GB)	0		
	SATA drive speed (hot plug or better) (RPM)	NA		
	Total Storage Capacity offered with SATA Drive (GB)	0		
	Total number of slots available for SAS drive	8 (Total bay will be 8)		
	Number of Slots populated with SAS Drive	2		
	Capacity offered per SAS Drive (GB)	1200		

	SAS drive Speed (Hot plug or better) (RPM)	10K		
	Total Storage Capacity offered with SAS Drive (GB)	2400		
	Total number of slots available for NL SAS drive	0		
	Number of Slots populated with NL SAS Drive	0		
	Capacity offered per NL SAS Drive	0		
	NL SAS drive speed (hot plug or better) (RPM)	NA		
	Total Storage Capacity offered with NL SAS Drive (GB)	0		
RAID	RAID level	1.0		
	No of RAID Controller Ports	8		
	Speed of RAID Controller Ports (Gbps)	12		
	RAID Controller Cache (GB)	2		
Ports & Interfaces	Network card supported	1G		
	Number of Networking Interface Cards (LAN)	1		
	Whether Network Interface Card Embedded	Yes		
	Total Number of Ethernet Ports required in Server	4x1G (Base T)		
	Server Network Ports should Support SR-IOV Feature	No		
	Server network ports should support DPDK and it should deliver zero packet loss as per RFC 2544 and deliver 100% line rate for all the packet sizes over 64 Bytes, Vendor to submit latest DPDK test report for the same	NO		
	Number of Single port FC HBA card	0		
	Number of Dual port FC HBA card	0		
	Number of Quad port FC HBA card	0		
	FC HBA Speed (Gbps)	NA		
	vHBA Card Features Supported	No		
	Number of Converged Network Adaptor (CNA)	0		
	Number of Ports per CNA card	NA		
	CNA Port Speed (Gbps)	0		
	Length of LC-LC Cable per SFP+ Port (meter)	0		
	Length of LC-LC Cable per HBA Port (meter)	0		

	Length of LC-LC Cable per CNA Port (meter)	0		
	Length of Twinax Breakout Cables per Port (meter)	0		
	Video Controller (support VGA or above resolution)	Yes		
	Keyboard Port	No		
	Mouse Port	No		
	DVD ROM (Internal/External)	No		
	USB Ports (version 2.0/3.0)	4		
	Total number of Spare Bays Available for Future Upgradation (Hot Pluggable)	6		
Certifications	Certifications/Compliance (OS)	Windows, Red Hat Linux, Suse Linux, Ubuntu		
	Certification/Compliance(Virtualiz ation/Cloud Platform)	VM ware, HyperV		
Features	Management Features-1	Remoter power On/ Shutdown of server, Remote Management of Server over LAN & WAN with SSL encryption through gigabit management port, Should have virtual Media support with all required licenses. Remote KVM Server Health Logging Out of Band Management		
	Management Features-2	Management of multiple Servers from single console with single source of truth for multiple sites, Automated infrastructure management for patch upgrades, version upgrades ,etc., Simplified management with analytics driven actionable intelligence., System tagging giving admin flexibility to provide metadata tags to each System to enable users to filter and sort systems based on user-assigned attributes, Hardware Profile based deployment to multiple Servers simultaneously, Policy template for deployment of single policy to multiple Servers simultaneously, Platform inventory and health status, Server utilization statistics collection (including firmware updates and diagnostic tools),Should provide an alert in case the system is not part of OEM hardware compatibility test, Solution should be open and programmable providing Rest API,		

		SDK for programming languages like Python , power shell scripts etc., Real-time out-of-band hardware performance monitoring & alerting		
	Security Features-1	Secure Boot(Firmware and Bios Level Security),Provision to lock the system on breach, Hardware root of trust/Dual Root of Trust, Server should provide policy based security, Server should provide server intrusion detection,, "Malicious Code Free design" (to be certified by OEM)		
	Security Features-2	Provision for Cryptographic firmware updates, Capability to stop execution of Application/ Hypervisor/ Operating System on predefined security breach, Secure/Automatic BIOS recovery, Network Card secure firmware boot, In case of any security breach system should provide the lock down feature		
	Server scalability to be achieved within the box & without adding nodes	Yes		
	support for high availability clustering and virtualization	Yes		
Generic	Redundant Power Supply	Yes		
	Hot Swappable (Redundant Power Supply)	Yes		
	Power Supply Efficiency	Platinum		
	Redundant Fan	Yes		
	Hot Swappable (Redundant Fan)	Yes		
	Server Main Supply	230 +/- 10%Vac		
Miscellaneous	Maximum power consumption of the system (Watts)	800		
	BIS Registration under CRS of MeitY	Yes		
	BIS Registration Number Under CRS of MeitY and its validity	0		
	Other Certifications Available	UL,CE,FCC		
	RoHS Compliance	Yes		
	Availability of the type test report from Central Government / NABL / ILAC acredited laboratory covering verification of all features & functional	No		

	parameters & environmental tests sequence			
	a) Dry heat:test - for 16 hrs at 45 deg C as per IS: 9000/pt-3/sec-5/1977 b)Cold test - for 4 hrs at 0 deg C as per IS: 9000/pt-2/sec-4/1977 c) Damp Heat Cyclic Test - for 2 cycles of 24 hrs at 40 deg C & 95% RH as per IS:9000/pt-5/sec-1/1981	NA		
	The server has been checked for all the parameters before conditioning, After completion of the environmental tests sequence, with a recovery period of 1 to 2 hrs, the server found to be functional	NA		
	Test Report Number & date	0		
	Name & Address of Lab	0		
Scope of Supply	Installation and Commissioning shall be included in the scope of supply	Yes		
Warranty	On Site OEM Warranty (Year)	24 x 7 , 5 years		

01 No. of Server		Compliance (YES/NO)	Remarks
Form Factor	Rack		
Size (RU)	1		
Processor Make	Intel		
Number of sockets available on chipset	2		
Number of sockets populated with processor	2		
Number of core per Processor	24 or higher		
Processor Configuration	Dual Processor of In Min 2.6 GHz / 16-core / 48MB Cache		
Chipset compatible with CPU	compatible to processor (OEM Make)		
Availability of Co-Processor	No		
If Yes Co-Processor Configuration	NA		
PCI Slots (Express Gen 3.0)	3		
Type of RAM	DDR4		
RAM Size (GB)	256 or higher		
RAM upgradable upto (GB)	1500		
DIMM Slots (No.)	32		
Type of Hard Disk Drive	SAS		
Hard disk drive Capacity (GB)	1TB Usable (Raid 5)		
Type of Storage	SSD (SAS)		
RAID Controller Cache (MB)	2048 or higher		
RAID Type	5/6		
RAID Controller Ports	8 or higher		
Video Controller (support VGA or above resolution)	Yes		
Keyboard	No		
Mouse	No		
Bays (min. 2 internal or more hot plug)	8		
USB Ports	4		
Certifications Compliance support by Windows, Red Hat or Novell or Oracle Cluster or Linux or AIX S/W	Yes		
DVD ROM	NA		
Network Card Supported	1Gx2, 10Gx2		

The table is headed **Table-5** in the top right corner.

Management Ports	Remote Management Console (KVM) Console, Should support virtual media, OS Operations, Power ON-OFF, Performance Monitoring with Licence.		
FC HBA Dual port card	Available		
FC HBA Dual port card Speed	16 or higher		
Power Management	Screen blanking, hard disk & system idle mode in power on, set up password, power supply surge protected		
Redundant Power Supply	Yes		
Power Supply Efficiency	Platinum or above		
Redundant Fan	Yes		
Total No of Ports	2 X 1G ,2 x10 G (Base T)		
Server scalability to be achieved within the box without adding nodes (in case of memory /disk/port	Yes		
RoHS Compliance	Yes		
Power Supply	230 V +/-10%, 50 Hz		
On Site Warranty (Years)	24 x 7, 5 years		

		Table-5(A)
01 No. Storage Area Network (OEM should be same as Table-5)		

Parameter	Specifications	Compliance (YES/NO)	Remarks
Operating System & Clustering Support	1. Support industry-leading Operating System platforms including: Windows 2012R2/2016/2019 VMware and Linux.		
	2. Support all above operating systems in Clustering.		
Capacity & Scalability	Min 8 x 3.84 TB SAS Mix Use SSD in RAID 6		
	Min 16 x 2.4 TB 10K RPM SAS Disk in RAID 6		
	Entire asked capacity should be supplied as part of a pool with automated tiering across all tiers		
	Scalable to minimum of 120 number of SAA SFF drives.		
Front-end Ports	Minimum of 4 x 16Gbps FC ports per controller with SFP Trans-Receiver or minimum of Dual 16Gbps FC ports or Dual 10 Gbps ISCSI ports per controller		
	Flexibility to use all above ports either as FC or ISCSI by replacing the requisite SFP. Vendors shall provide the additional SFP accordingly. In case, vendor doesn't support this feature, then every controller shall be populated upfront with 4 x 16Gbps FC ports or 4 x 10Gbps ISCSI ports.		
Architecture	The storage array should support dual, redundant, hot-pluggable, active-active array controllers for high performance and reliability		
No Single point of Failure	Offered Storage Array shall be configurable in a No Single Point of failure including Array Controller card, Cache memory, FAN, Power supply etc.		
Cache	1. Offered Storage Array shall be given with Minimum of 8GB cache per controller in a single unit.		
	2. Cache shall be backed up in case of power failure for indefinite time either using batteries or capacitors or any other equivalent technology.		
	3. Offered Storage shall also have optional support for min 3TB Flash cache using SSD / Flash drives in case there is no tiering. Vendor should provide min 2 x 960 GB Flash cache in case there is no tiering.		
	4. In case no tiering, Offered Flash cache shall be tuned for random read operations and shall remain activated even at less than 70% of random average read workload		
Raid Support	1. Shall support Raid 0, 1, 1+ 0, 5 and Raid 6		
	2. All Raid Sets shall support thin provisioning. Vendor shall offer the license of thin provisioning for complete supported capacity of the array.		
	3. Thin provisioning shall be supported with offered Flash Cache.		
Point in time and clone copy	1. Offered Storage array shall be configured with array based Snapshot and clone functionality and shall be		

	configured for minimum of 64 snapshot licenses and shall support upto 512 snapshot license.		
Virtualization and Thin provisioning	1. Offered storage shall be offered and configured with virtualization capability so that a given volume can be striped across all spindles of given drive type within a given disk pool. Disk pool shall support all listed raid sets of Raid 1, Raid 5 and Raid 6.		
	2. Offered Storage shall be offered and configured with Thin Provisioning capability.		
Data Tiering	Offered Storage shall also be configured for Sub-Lun Data tiering in real time fashion across different type of drives within a given pool like SSD, SAS, NL-SAS etc. License shall be configured for maximum supported capacity of the array.		
Global and dedicated Hot Spare	1. Offered Storage Array shall support Global hot Spare for offered Disk drives.		
	2. Atleast 1 hot spare shall be configured for every 30 drives.		
Logical Volume & Performance	1. Storage Subsystem shall support upto 512 Logical Units.		
	2. Offered Storage shall have inbuilt performance management software. Configuration Dashboard shall show overall IOPS and MB/sec performance.		
Load Balancing & Multi-path	Multi-path and load balancing software shall be provided, if OEM/vendor does not support MPIO functionality of Operating system.		
Form factor	2U 19" rack mountable		
Power	Dual redundant		
Certification	Environmental and Regulatory compliance certification/datasheet		
Cables and Connectors	All the required components including cables, connectors, Transceivers, Patch Cords etc. to be provided		
On Site Warranty (Years)	24 x 7, 5 years		
Compatibility with computer server	Server and Storage shall be preferably of same Make with compatible interface		
OEM	OEM should be same as table-5		

		Compliance (YES/NO)	Remarks
01 No. of Server			
Form Factor	Rack		
Size (RU)	1		
Processor Make	Intel		
Max. Number of sockets available on chipset	2		
Max. Number of sockets populated with processor	2		
Number of core per Processor	24 or higher		
Processor Configuration	Intel Xeon Gold 6248 R or higher model in latest generation of CPU		
Chipset compatible with CPU	Compatible to processor		
Availability of Co-Processor	No		
If Yes Co-Processor Configuration	NA		
PCI Slots (Express Gen 3.0)	3		
Type of RAM	DDR4		
RAM Size (GB)	256 or higher		
RAM upgradable upto (GB)	1500		
DIMM Slots (No.)	24		
Type of Hard Disk Drive	SAS		
Hard disk drive Capacity (GB)	2 X 1.2TB (RAID 1)		
Hard disk drive Speed (RPM)	10K or higher		
RAID Controller Cache (MB)	2048 or higher		
RAID Type	1		
RAID Controller Ports @12 Gbps	8		
Video Controller (support VGA or above resolution)	Yes		
Keyboard	No		
Mouse	No		
Bays (min. 2 internal or more hot plug)	8		
USB Ports (version 2.0/3.0)	4		
Certifications Compliance support by Windows, Red Hat or Novell or Oracle Cluster or Linux or AIX S/W	Yes		
DVD ROM (or better)	8x or better		
Network Card Supported	1G x 2, 10G x 2 (Base T)		
Management Ports	Remote Management Console (KVM) Console, Should support virtual media, OS Operations, Power ON-OFF, Performance Monitoring with Licence.		
FC HBA Dual port card	Available		
FC HBA Dual port card Speed	16 or higher		
Power Management	Screen blanking, hard disk & system idle mode in power on, set up password, power supply surge protected		
Redundant Power Supply	Yes		
Redundant Fan	Yes		
Total No of Ports	1G x 2, 10G x 2		
Server scalability to be achieved within the box without adding nodes, in case of memory /disk/ports	Yes		
RoHS Compliance	Yes		
Power Supply	230 V +/-10%, 50 Hz		
On Site OEM Warranty (years)	5 years 24x7 support		

		Table-6 (A)
01 No. Storage with required accessories	**Compliance (YES/NO)**	**Remarks**
Storage System Type	Enterprise SAN		
Storage Capacity (TB)	20 TB (approx.)		
Hardware Form Factor of Storage System (RU)	2		
Disk Type	SAS		
Speed of dual ported disk drive in Gbps	12 or higher		
Total Numbers of Drive Slots	24		
Number of Drive Slots Populated with drives of different type in the Storage System	12		
Total no of drive slot populated with SSD	0		
Total no of drive slot populated with Flash Drive	0		
Total no of drive slot populated with SAS	12		
Total no of drive slot populated with NL-SAS	0		
Drive Type Wise Storage Capacity of System in TB (Capability)	2.4(TB) or higher 10K or higher		
Automated Storage tiering feature across the populated Drives types(in case of multiple drive system)	Yes		
Automated Storage tiering Software License Included	Yes		
Hot Spares	Yes		
Number of Populated Disks per Hot Spare	01		
Provision for additional Capacity	Yes		
If Yes, Number of Drive Slots available to achieve additional capacity	12 or higher		
Type of Front end Ports	-		
Number of Front end Ports	8		
Speed of front end Ports in Gbps	16 or higher		
Type of Back end Ports	-		
Number of Back end Ports	2		
Speed of Back end ports in Gbps	6 or higher		
Number of Remote Replication Ports (FC/Ethernet)	N/A		
Number of Controllers/VSD/ Node available in the storage System on common back plane without using external switch/device OR without common backplane using switches	2		
RAID Level Support	0,1,5,6		

Active-Active Controllers Configured in HA	Yes		
Active Stand by Controller Configured in HA	No		
Cache Availability Type	Global		
Total Configurable Cache (GB)	16 or higher		
Raid configuration required	To be configured with Raid 5 or 6		
Wide Stripping or equivalent feature	Yes		
No of Snapshot Copies Per Volume	255		
License for Snapshot included	Yes		
Remote Replication	Yes		
Remote Replication license included	No		
Synchronized Replication Support	No		
Synchronous Replication license included	No		
Asynchronous Replication Support	Yes		
Asynchronous Replication license included	No		
3-DC Zero Data Loss Support	No		
If Yes, Supported Replication Topology for 3-DC Zero Data Loss	-		
Type of Data Compression	NA		
Type of Data Deduplication	NA		
No Single point of Failure with Non-Disruptive replacement of Hardware	Yes		
The Storage provide Non-disruptive Firmware /Microcode upgrade	Yes		
Firmware upgrade without any controller reboot	No		
Encryption Required	No		
Type of Data at Rest Encryption	NA		
Storage management software for configuration and multi-pathing (part of the supply).	YES		
Multi-pathing and load balancing and fail over software (part of supply) with license for windows/Linux servers or shall support native multipathing of OS.	YES		
BIS Registration under CRS of MeiTY	Yes		
If Yes, BIS Registration No under CRS of MeiTY otherwise indicate N/A	-		
BIS Registration Certificate shall be furnished when demanded by the buyer	Yes		
Storage System is compliant with IPv6	Yes		
Standby power consumption of System in Watt	580		

Scope of Supply	It includes installation, commissioning & integration together with all necessary Software/hardware accessories including fibre etc to make the system fully functional as intended with the Server as mentioned in Table-6.		
On Site Warranty (Years)	24 x 7, 5 years		

Annexure T-I

Chapter 4: Technical Bid- Pre-qualification Criteria – Envelope – 1 (Annexure T-I to T-IX) Checklist for Technical Bid

Note: Required documents provided by the bidders for the fair evaluation shall be seriallyordered with page numbers which matches the below mentioned page nos.

Sr. No.	Pre-qualification criteria	Documents to be provided	Attached(Y/N)	Page No.
01.	The bidder must be a company registered under the Companies Act, of India/State. Documentary (Certificate of incorporation) evidence to be submitted Registration	Certificate of Commencement of business/Certificate consequent to change of name, if applicable		
02.	Bidder should have satisfactorily provided similar services to at least three Government clients/ Autonomous Bodies/ Public sector undertaking/Reputed Companies during last three years. Startup/MSME will be considered as per applicable rule/law.	Certified documents of work orders/ Completion Certificate		
03.	Bidder should be registered with Income Tax and Goods and Service Tax.	Attested copy of PAN/GIR Card Attested copy of GST		
04.	Earnest Money Deposit (EMD) of Rs. 1,74,000/-	Soft copy of EMD to be uploaded on CPPP Cover No. 01		
05.	Bidder's Details Annexure T-II	[On the letterhead of the Bidder]		
06.	Bid form Annexure T-III	[On the letterhead of the Bidder]		
07.	Declaration of Bidder Annexure T-IV	[On the letterhead of the Bidder]		
08.	Declaration of blacklisting/Non Blacklisting- Annexure-T-V	[On the letterhead of the Bidder]		
09.	Annual turnover of the firm for last three years -Annexure T-VI	[On the letterhead of the Bidder]		
10.	Details of Firm's Experience of similar supply Annexure T-VII	[On the letterhead of the Bidder]		
11.	OEM/Manufacturer's Authorization form Annexure-T-VIII	[On the letterhead of the Bidder]		

12.	Self-Certificate for Local Content Annexure-T-IX	[On the letterhead of the Bidder]		

Please use separate sheet for providing complete information, if necessary.

While evaluating bids, the document required against above eligibility criteria shall be provided as per this tender as Annexures. Firm shall self-certify each page of the tender document in token of its understanding / acceptance by signing it and upload the same on CPP Portal (https://eprocure.gov.in/eprocure/app)
8
The bidder is required to submit the all above required documents self-attested photocopies of the respective documents along with the Technical Bid, failing which their bids may be summarily/out rightly rejected and may not be considered.

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

(Tender No.INF/187/318/SERVER&STORAGE/2022)

Annexure T–II

Bidder's Details

[On the letterhead of the Bidder]

1	**Name of the Firm/ Company**		
2	**Name and Designation of Authorized Signatory**		
3	**Office Address of the Firm/ Communication Address:**		
4	**Phone No. / Mobile No:**		
5	**E-Mail ID:**		
6	**GST registration Number:**		
7	**PAN Number:**		
8	**Firm's Bank Account details**	**Bank Account No.:**	
		Name of the Bank:	
		IFSC Code No:	
		Name of Branch:	
Particular Details of the Bidders Representative			
9	**Contact Person: / Mobile No::**	**Name of Person:**	
		Designation:	
		Tele / Mobile No:	
		E-Mail ID:	

UNDERTAKING

1. **I, the undersigned certify that I have gone through the terms and conditions mentioned in the bidding document and undertake to comply with them.**
2. **The rates quoted by me are valid and binding upon me for the entire period of contract.**

Authorized Signatory (signature in full):_____

Name and Title of Signatory: _____

Company Rubber Stamp:

Annexure T–III

BID FORM
[On the letterhead of the Bidder]

To,
The INFLIBNET Centre, Infocity, Gandhinagar

Sub: Tender for Servers and Storage at INFLIBNET Centre, Gandhinagar

Dear Sir,
We the undersigned bidder/(s), having read and examined in details the specifications and other documentsof the subject tender No.INF/187/318/SERVER&STORAGE/2022, do hereby propose to execute the job as per specification as set forth in your Bid documents.

The prices of all items stated in the bid are firm during the entire period of job irrespective of date of completion and not subject to any price adjusted as per in line with the bidding documents. All prices andother terms & conditions of this proposal are valid for a period of 120 (one hundred and twenty only) days from the date of opening of bid. We further declare that prices stated in our proposal are in accordance with your bidding.

We declare that items shall be executed strictly in accordance with the specifications and documents irrespective of whatever has been stated to the contrary anywhere else in our proposal. Further, we agree that additional conditions, deviations, if any, found in the proposal documents other than those stated in our deviation schedule, save that pertaining to any rebates offered shall not be given effect to.

If this proposal is accepted by you, we agree to provide services and complete the entire work, in accordance with schedule indicated in the proposal. We fully understand that the work completion schedule stipulatedin the proposal is the essence of the job, if awarded.

We further agree that if our proposal is accepted, we shall provide a Performance Bank Guarantee of the value equivalent to three percent (3 %) of the order value as stipulated in Financial Bid.

We agree that INFLIBNET reserves the right to accept in full/part or reject any or all the bids received or split order within successful bidders without any explanation to bidders and his decision on the subject willbe final and binding on the bidder.

Dated, this ....day of 2022

Thanking you, we remain,

Authorized Signatory with stamp (Signature In full): _____

Name and title of Signatory: _____

Annexure T–IV

DECLARATION

[On the letterhead of the Bidder]

I, _____ Son/Daughter/Wife of _____ Resident of
_____
_____ Proprietor / Director / Authorized Signatory of the
Company / Firm, mentioned above, is competent to sign this declaration and execute this tender document;

I/We hereby certify that I/We have read the entire terms and conditions of the tender documents from PageNo. to _____(including all documents like annexure(s), schedules(s), etc.,) which form part of thecontract agreement and I/We shall abide hereby by the terms / conditions / clauses contained therein.

The information / documents furnished along with the above application are true and authentic to the bestof my knowledge and belief. I / we are well aware of the fact that furnishing of any false information / fabricated document would lead to rejection of my tender at any stage besides liabilities towards prosecution under appropriate law.

The corrigendum(s) issued from time to time by your department/organization too have all been taken into consideration, while submitting this declaration letter.

I/We hereby unconditionally accept the tender conditions of above mentioned tender document(s) in it's totally / entirely.

In case any provision of this tender are found violated, then your department/organization shall without prejudice to any other right or remedy be at liberty to reject this tender/bid including the forfeiture of the full said earnest money deposit absolutely.

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

<u>**Annexure T–V**</u>

CERTIFICATE

DECARATION REGARDING BLACKLISTING/NON BLACKLISTING

[On the letterhead of the Bidder]

I /We Proprietor / Partner (s) / Director (s) of M/s ....hereby declare that the firm/ company namely M/s. .... has not been blacklisted or debarred in the past by any organization from taking part in Government tenders.

OR

I / We proprietor / partner (s) / Director (s) of M/S... hereby declare that the firm/ company namely M/s. .... was blacklisted or debarred by any Government Department from taking part in Government tenders for a period of ....years w.e.f................. The period over on .... and now the firm/ company is entitled to take part in Government tender. In case the above information found false I / we are fully aware that thetender/ contract will be rejected / cancelled by INFORMATION AND LIBRARY NETWORK CENTRE, GANDHINAGAR shall be forfeited. In addition to the above INFORMATION AND LIBRARY NETWORK CENTRE, GANDHINAGAR. Will not be responsible to pay the bills for any completed/ partially completed work.

Signature: ....

Name: ....

Capacity in which as signed: ....

Name & address of the firm: ....

| Seal of the firm should be affixed. |

....

Dated: Signature of Bidder with seal.

In case of proprietorship firm, certificate will be given by the proprietor, and in case of partnership firm, certificate will be given by all the partners and in case of limited company by all the Directors of the company or company secretary on behalf of all directors.

Annexure T–VI

FINANCIAL CAPABILITY OF BIDDER

[On the letterhead of the Bidder]

Annual turnover details of the Bidder from [insert relevant details]

#	Financial Year	Turnover in Indian Rupees
A	2019-2020	
B	2020-2021	
C	2021-2022	

[**Extra rows may be added, if required**]

*Audited Balance sheet and Profit & Loss account statement of the Bidder for each of the above mentionedfinancial years shall submit as supporting evidence.

1. Please affix the signature of the authorized signatory of the Bidder with name, designation, sealand date here.

2. Please affix the signature of the authorized signatory of the statutory auditor of the Bidder with name, designation, seal and date here.

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

Tender for Servers and Storage at INFLIBNET Centre, Gandhinagar

<u>**Annexure T–VII**</u>

<u>**Details of works of similar type executed by the bidder**</u>

[On the letterhead of the Bidder]

Sl. No.	Name of the Company	Work Description	Ref. & Date of the order	Work Order Value	Contract Period	Page No

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

If necessary, separate sheet may be used to submit the information.

Tender for Servers and Storage at INFLIBNET Centre, Gandhinagar

<u>**Annexure T–VIII**</u>

<u>MANUFACTURER'S AUTHORIZATION FORM</u>

To
INFLIBNET CENTRE
INFOCITY, GANDHINAGAR

WHEREAS _____ who are official producers of
_____and having production
facilities at
_____

do hereby authorize _____located at

_____ (hereinafter, the "Bidder") to submit a bid of the following
Products produced by us, for the Supply Requirements associated with the above Invitation for Bids.
When resold by _____, these products are subject to our applicable standard end user
warranty terms.
We assure you that in the event of _____, not being able to fulfill its obligation as our
Service Provider in respect of our standard Warranty Terms we would continue to meet our Warranty Terms
through alternate arrangements.
We also confirm that _____is our authorized service provider/system integrator and
can hence provide maintenance and upgrade support for our products.
We also confirm that the products quoted are on our current product list and are not likely to be
discontinued within 10 years from the day of this letter. We assure availability of spares for the products for
the next ten years.

Name   In the capacity of

Signed

Duly authorized to sign the authorization for and on behalf of _____

Dated on _____ day of_____2022

Note: This letter of authority must be on the letterhead of the Manufacturer and duly signed by an authorized
signatory.

Tender for Servers and Storage at INFLIBNET Centre, Gandhinagar

Annexure T–IX

Self-Certificate for Local Content

(To be submitted by the vendor/firm on its official letter head)

Tender No.:

We hereby certify that the items quoted by us against above mentioned tender No. has the local content as per below:

Local Content (in %) _____

Local Supplier Class_____

The details of the Make in India items/parts used in the quoted products is/are as under:
1.

2.

3.

The details of the location (s) at which the local value addition made/manufactured is/are as under:
1.
2.
3.

We also understand, false declarations will be in breach of the code of integrity under rule 175(1)(h) of the General financial Rules for which a bidder or its successor can be debarred for up to two years as per Rule 151(ii) of the General Financial Rules along with such other actions as may be permissible under law.

Date: ....

Authorized Signatory (Signature In full): ....

Name and title of Signatory: ....

Designation: ....

Stamp of the Company: ....