



University of Calcutta

ITEM RATE E-TENDER

**Radio Physics and Electronics Department
University of Calcutta**

University of Calcutta

Notice Inviting e-Tender

(Bidding through e-tendering mode only)

E-Tender No. : EQ/RPE/MoES/326/2025

Dated: 04.12.2025

The University of Calcutta invites e-tenders for the following work from experienced & bonafide firms/ organizations having credential of similar nature of work in any Government/ Semi-Govt./State Aided University/Autonomous Govt. aided Institution.

Name of Work: Supplying, installation and commissioning of HPC server (Annexure - I) under MoES funded research project on ST Radar at Ionosphere Field Station, Radio Physics and Electronics Department under the University of Calcutta.

- 1) **Earnest Money (EMD):** Rs 124000/- only. **(To be deposited Online).**
- 2) No interest will be paid on the EMD (if any).
- 3) **Completion time of the work:** 30 days from the date of issuing work order.
- 4) **Bid Validity Period:** 180 days.
- 5) **Name of the Concerned Department:** Office of the Radio Physics and Electronics Department under the University of Calcutta.
- 6) **Eligibility criteria for participation in the tender (up to date as on date):**
 - The intending bidder must attach the photo-copies of all the relevant documents such as **Valid Trade License in similar nature of work**, P.Tax, GST & Pan and credential for satisfactory completion of **similar nature of job amounting to 75% of the quoted value** in a single tender in the last three (03) financial years in Government, or Government Undertaking or any State Aided University. **Only completion certificate of the work will be considered as Credential of works.** Original documents **(up to date as on date)** may be asked for verification of technical checking on the date of tender opening. Failing to produce original documents, the tender will be rejected.

N.B: – Completion certificate should contain a) Name of work, b) Name and address of Client, c) Amount put to tender, d) Date of commencement of work e) Date of completion of work.

- a) The Bidder should be an Original Equipment Manufacturer (OEM) or an authorized firm/agent of reputation having sufficient expertise and experience in the subject tender with sound warranty/service support capability and tender specific authorization from Manufacturer.
- b) Either the Indian agent on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product.
- c) If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product.
- d) The tenderer should clearly mention whether they are the OEM or authorized dealer/agent of the Manufacturers. In the case of dealer/distributor/agent, latest letter of authorization from the OEM

specifically for this tender should be submitted along with the Technical Bid.

- e) Submission of duly filled in and signed compliance certificate by OEM must with the Technical Bid.
- f) Equipment offered must be supported with printed catalogue & description on OEM website.
- g) **Past Experience:** The Bidder should have supplied Minimum 3 High Performance Compute facility during last three financial years before the bid publication date to any Central/State Govt. organization/ PSU/ Public Listed Company. Each order value should be Minimum INR 1.5 Cr. Copies of relevant contracts along with completion certificates must be submitted as part of RFP response.
- h) Bidder must have valid ISO 9001:2015, 14001:2015, ISO/IEC 27001, ISO/IEC 20000-1:2018. If the bidder does not have the above ISO certificates, they will have to upload an undertaking that they will complete those certifications within 7 days of technical evaluation if they are declared L1.
- i) Server OEM should have ISO 9001, ISO 45001, ISO 14001, ISO 27001, ISO 50001.
- j) The Server OEM should have minimum 10 entries in <https://top500.org/lists>.
- k) All Servers should be from same OEM.
- l) MII Class I OR II should be mentioned.
- m) Bidder should enclose copy of following documents. Each document including ATC to be signed by the authorized person of bidder with company stamp.
 - i. Trade license.
 - ii. Company Registration certificate.
 - iii. Bid specific OEM Authorization certificate is mandatory.
 - iv. The compliance Certificate of Server should be provided on the OEM letterhead with the Bid number duly signed by the manufacturer.
 - v. GST registration certificate.
 - vi. PAN GST certificate to be submitted.
 - vii. Similar 3 Purchase Orders copy.(as detailed in point 7 above)
 - viii. Income Tax Return (for the last 3 years).
 - ix. Cancelled Cheque/ Bank Mandate (authorized by Branch Manager).
 - x. Audited Balance Sheet (for the last 3 financial years).
 - xi. A list of clients where these type of Servers has been supplied and installed should also be provided.
 - xii. Documentary proof of Service facility of OEM & Bidder.
 - xiii. Documentary proof of the bidder having similar experience for at least last 3 years.
 - xiv. Annexure-I in letter head with company seal and sign.
- n) **Technical Supporting Staff**– The bidder should have trained and qualified customer support staff with ample experience in the required field. Complete details of service centres and support staff should be provided. They should have service centre at eastern Region preferably in Kolkata. The details of the service centres should be provided. As lot of service is involved this is mandatory.
- o) All hardware components should be from same OEM.
- p) The OEM of the active product should have well established manufacturing plant/Research & Development Lab in India or abroad.
- q) All active devices quoted by the bidder should be from a single OEM only.
- r) The OEM of active devices to be quoted by the bidder should have local Technical Assistance Centre (TAC) support in India through a toll-free number and Returned Materials Authorization (RMA) depot in India.
- s) The OEM and Bidders should be present in the country for at least past 10 years.
- t) Products (active) being quoted should be available as on date with the OEM and should be publicly available.

- u) As per OEM/manufacture terms and conditions, warranty as mentioned in the above BOQ after successful installation & commissioning of the equipment. In case of any replacement during warranty period the same shall be replaced free of cost on CIF. Warranty/service will be irrespective of delivery location of the items .The warranty of the items must be verifiable from OEM website. OEM & Bidder Must have 24x7 telephonic/help desk support system facility. Further, the warranty status should be verifiable from the OEM website against the serial number of the supplied products. The website address where from such verification can be done must be mentioned in the bid document. No parts, accessories of the systems should be excluded from such warranty.

1.GENERAL INSTRUCTIONS

- i. Validity of tender: Tender submitted should remain valid for at least six months from the date of opening the tender. Validity beyond six months from the date of opening of the tender shall be lapsed by mutual consent.
- ii. Incomplete and conditional tenders as well as tenders received after the due date will be summarily rejected without assigning any reasons thereof.
- iii. All contracts related to this tender will be interpreted under the Indian Law.
- iv. Bidder should have local office in Eastern Region. Office registration certificate/trade license should be submitted.
- v. Service facility: Supplier should mention their details of service setup and man powers that are responsible for after sales support. Response time should be within 48hrs.
- vi. Delivery should be made within 30 days of the receipt of the Purchase Order by the Vendor. CU reserves the right to impose penalty in the form of Liquidated damage (LD) as per GoI rules in case of delayed delivery.
- vii. Warranty certificate, user's manuals etc. are to be handed over to the user after successful commissioning of the system.
- viii. In the even to date being declared a closed holiday for purchaser's office, the due date for submission of bids and opening of the technical bids will be the following working day at the appointed time.
- ix. In case of any dispute, the decision of CU authority shall be final and binding on the bidders.
- x. Escalation Matrix for Support Service: After sales service/facilities are to be elaborated clearly. Bidder/OEM must provide Escalation Matrix of Telephone Numbers for Service Support.
- xi. Bidder should have a Toll free Number and online call reporting system. The number should be provided and the URL should be mentioned. In case the bidder does not possess these facilities, it has to be created within 10 days of award of the contract if becomes L1. Undertaking in this regard has to be uploaded with the bid.
- xii. The bidder should not be under liquidation, court receivership or similar proceedings and should not be bankrupted. Bidder must upload undertaking in this regard with all the relevant documents.
- xiii. The bidder should be of positive net worth for the last three years ending 2024-25. Bidder and OEM should be in same line of business for last 10 years in India.
- xiv. Local delivery and insurance shall be obtained by the bidder at their own cost to the final destination of installation. For delivery goods at site, the insurance shall be obtained by the supplier at their own cost from warehouse of the supplier to the final destinations of installation defined as project site on "All Risks" basis including war risks and strikes. It will be the sole responsibility of the supplier to file the claim, if any, with the insurance company immediately after delivery of goods at project sites. CU shall not be responsible for any loss to the supplier.
- xv. Bidder should be strictly as per technical specification elaborated in the bid document; no deviation will be accepted. Data Sheets of the product(s) offered in the bid, are to be uploaded along with the bid documents. Buyers will match and verify the Data Sheet with the product specifications offered. Such offered specifications have to outline the offered parameters. In case of any unexplained mismatch of technical parameters, the bid is liable for rejection. For Server : Technical compliance statement of the offered products along with public URL of the quoted products in OEM letterhead to be submitted in the bid.

- xvi. During evaluation, the bidders may be invited for clarification/ information or additional documents or original hard copy of any of the documents already submitted, may be sought from them & if these are not produced within the stipulated time frame, their bid will be liable to rejection.
- xvii. Bidders who do not comply with any of the conditions are liable to be rejected. No bidder shall be entitled for any compensation whatsoever for rejection / non consideration of the tender.
- xviii. If any information furnished by the bidder is found incorrect or false at a later stage, he/she shall be liable to be debarred from tendering /ordering.
- xix. Carrying, loading, unloading, installation, testing, commissioning and integration of the components/equipment purchased are to be done by supplier(s) at our premises. It will be treated that all the charges for the same is included in quoted price. Compatibility on new system with existing system has to be ensured by the bidder.
- xx. Bidder and OEM must not be blacklisted at CU or any Government Organization in Country. A declaration to the effect must be submitted.
- xxi. The final order quantities may be varied at the time of ordering as per Guidelines.
- xxii. The tender/contract/order shall be interpreted in accordance with the laws of the Union of India and all disputes shall be subject to local jurisdiction.
- xxiii. 100% payment of the total price of all the goods given in the purchase order shall be paid by the **University of Calcutta** to the supplier/bidder against delivery, inspection at site in good condition, installation, commissioning, testing and acceptance by the concerned department. **University of Calcutta** will make the payment through electronic transfer i.e. RTGS/NEFT for which details (Name of the Bank, Branch name, Account Number, IFSC & MICR Code) shall be provided by the supplier.
- xxiv. The supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination i.e. CU. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. The packing, making and documentation within and outside the packages shall comply strictly with such special requirements as shall be provided for in the contract.
- xxv. Bid should be strictly as per Technical Specifications elaborated in the Bid documents; no deviations will be accepted.
- xxvi. Bidder (s) should sign on all the pages of the relevant documents.
- xxvii. Bid documents can be downloaded from Website site. The downloaded documents shall be treated as valid document for participation in the tender. Documents to be uploaded must be signed.
- xxviii. Price bid will be opened only of the technically eligible bidders.
- xxix. It will be responsibility of the bidders to check Website portal for updating , if any.
- xxx. Any change request of change from the bidder should be submitted through Website Portal.
- xxxi. The delivery, installation, testing & commissioning of above shall be made/completed within 120days from the date of receipt of the purchase order.
- xxxii. It will be the responsibility of bidders to supply, assemble, install and commission of the all systems along with OS installation in the Server. The bidders are requested to mention their complete address with mobile number and e-mail ID in the bid.
- xxxiii. Consortium is not allowed and No Partial Quote will be accepted.
- xxxiv. Force majeure Clause: If the work(s) be delayed for the following reasons: -
Due to war, internal emergency and other conditions such as abnormally bad weather, flood, cyclone natural calamity or serious loss or damage by fire or civil commotion, the contractor shall immediately give notice thereof in writing to the Website portal, but shall nevertheless use constantly his/her best endeavors to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of CU to proceed with the works.
- xxxv. The bidder must upload the declaration with supporting document/s related to countries sharing land border with India on their Letterhead as they have registered with the competent authority to participate in this bid.
- xxxvi. CU reserves the right to accept or reject any bid and to annul the bidding process and reject all bids at any time prior to contract award, without thereby incurring any liability

to the affected bidder or bidders.
xxxvii. Land Border clause to be filled up as per annexure.

- 7) **BOQ for the respective work should be uploaded along with valid trade license, P.Tax, PAN, GST & completion certificate for last 03 financial years (up to date as on date).**
- 8) **Time Extension:** Time is the essence of the contract, generally no time of extension will be allowed. But, in case of Force Majeure, the extension of time may be considered on the basis of actual situation and subject to consideration of the Tender Inviting Authority.
- 9) **Liquidated damage:** Liquidated damage will be charged to the contractor, if they fail to complete the work within the stipulated time as per contract@0.01% per day to a maximum limit of 10 % of the contract value.
- 10) **Defect & Liability Period:** The defect & liability period will be for a period of manufacturer guarantee from the date of completion of the job or 03 years whichever is more. Any defects pointed out during said period has to be mending good damages by the agency at their own cost failing which the retention money will be forfeited.
- 11) **No extra payment will be paid beyond the tendered amount.**
- 12) The Tender Inviting Authority reserves the right to accept or reject any tender without assigning any reasons.
- 13) **The intending bidder must quote all item/s rate on the BOQ, failing which his/her tender, will be cancelled. The Bidder should inspect the site for the mentioned work before bidding of the tender.**

Annexure - I

Technical Specification				
1. Servers :				
Master Node (Qty.1 no)				
SI No.	Parameter	Minimum specification	Complied	Remarks
1	Make & model	<i>(Please specify make & unique model name)</i>		
2	Form Factor	Maximum 2U rack mount server with front locking bezel, cable manager, sliding rails & accessories		
3	Processor	1 x AMD EPYC 9124 3.0GHz, 16C/32T, 64M Cache (200W) DDR5-4800		
4	Memory	128GB (4 x 32GB) RDIMM, 5600MT/s, Dual Rank scalable upto 2TB		
5	Storage controller	12Gbps PCIe controller, 8GB non-volatile cache supporting RAID 1, 5, 6, 10		
6	Hard Disk Drive	2 x 480GB SSD SATA and 8 x 16TB Hard Drive SAS		
7	I/O Slots	Minimum PCIe 5.0 2 x16 slots.		
8	Network Port	Minimum 2 x 1GbE (RJ-45) and 2 x 10G Base-T		
9	OS	Certified for latest version of Red Hat Enterprise Linux, SUSE Linux Enterprise Server, Microsoft Windows		

	certification	Server, Ubuntu & VMWare		
10	EAL certification	System's integrated remote management hardware & tool should be minimum Evaluation Assurance Level (EAL) EAL2+ certified. Certificate from Common Criteria Portal to be submitted		
11	RPS	80Plus Platinum certified redundant power supplies (certification evidence from 80Plus portal to be submitted)		
12	Fans	Fully populated redundant hot-swap system fans		
13	Other Interfaces	1 x 1Gbps system management port (RJ-45), 1 x video port, 3 x USB ports		
14	System health	Monitoring fan, power supply, memory, CPU, RAID, NIC & proactive reporting for impending failure		
15	BIOS	System should boot with & run the BIOS of the OEM make (manufacturer) that is quoted to evaluate intellectual property, MII compliance & security. All updates should happen only using quoted OEM's access controller & management software to enforce security.		
16	Security	Publicly available links, verifiable evidence must be submitted against each of the feature below		
		Silicon-based Hardware Root of Trust		
		Automatic BIOS recovery		
		Firmware drift detection & alerting		
		Cryptographically signed firmware updates		
		Cryptographically verified trusted booting standards meeting NIST SP 800-147B, NIST SP 800-155, protection standards meeting NIST SP 800-193 standards & secure media sanitization standards meeting NIST SP 800-88		
		System lockdown support to lock down configuration and firmware, protecting the server from inadvertent or malicious changes		
		Secure default passwords during transit		
		Persistent event logging including user activity		
		Drive security, including secure system erase for HDD, SSD & NVMe		
		Dynamically enabled / disable USB ports to protect from USB-based attacks		
		Protection against compromised firmware execution		
		UEFI secure boot with custom certificates		
		Intrusion alert in case chassis being opened		
17	System Management	Manufacturer's system management software supporting virtual media, virtual folders, remote file share & virtual console		

18	Access & management	Integrated remote access controller & software should support advanced agent-free local and remote server administration & support for features like configuration, firmware updates, OS deployment, health monitoring & diagnostics, automation of routine management activities with perpetual license		
19	Certifications & benchmarks	Relevant product datasheets, certification, benchmark or reference documents verifiable from publicly available data sources must be submitted along with bill of material for detailed bid evaluation. Links for certifications to be submitted.		
20	Authorization	"Manufacturer Authorization Letter" specific to the tender, signed digitally or by OEM's Board authorized signatory has to be submitted.		
21	MII local content	MII Local Content declaration signed digitally or by OEM's Board authorized signatory has to be submitted.		
22	Warranty	3 years comprehensive next business day on-site support. Warranty listing in OEM support site		

Compute Node (Qty.1 no)

SI No.	Parameter	Minimum specification	Complied	Remarks
1	Make & model	<i>(Please specify make & unique model name)</i>		
2	Form Factor	Maximum 1U rack mount server with front locking bezel, cable manager, sliding rails & accessories		
3	Processor	2 x AMD EPYC 9124 3.0GHz, 16C/32T, 64M Cache (200W) DDR5-4800		
4	Memory	256GB (8 x 32GB) RDIMM, 5600MT/s, Dual Rank scalable upto 2TB		
6	NVMe Drive	1 x 960GB Data Center NVMe Read Intensive AG Drive U2 with carrier		
7	I/O Slots	Minimum PCIe 5.0 2 x16 slots.		
8	Network Port	Minimum 2 x 1GbE (RJ-45) and 2 x 10G Base-T		
9	OS certification	Certified for latest version of Red Hat Enterprise Linux, SUSE Linux Enterprise Server, Microsoft Windows Server, Ubuntu & VMWare		
10	EAL certification	System's integrated remote management hardware & tool should be minimum Evaluation Assurance Level (EAL) EAL2+ certified. Certificate from Common Criteria Portal to be submitted		
11	RPS	80Plus Platinum certified redundant power supplies (certification evidence from 80Plus portal to be submitted)		
12	Fans	Fully populated redundant hot-swap system fans		
13	Other Interfaces	1 x 1Gbps system management port (RJ-45), 1 x video port, 3 x USB ports		
14	System health	Monitoring fan, power supply, memory, CPU, RAID, NIC & proactive reporting for impending failure		

15	BIOS	System should boot with & run the BIOS of the OEM make (manufacturer) that is quoted to evaluate intellectual property, MII compliance & security. All updates should happen only using quoted OEM's access controller & management software to enforce security.		
16	Security	Publicly available links, verifiable evidence must be submitted against each of the feature below		
		Silicon-based Hardware Root of Trust		
		Automatic BIOS recovery		
		Firmware drift detection & alerting		
		Cryptographically signed firmware updates		
		Cryptographically verified trusted booting standards meeting NIST SP 800-147B, NIST SP 800-155, protection standards meeting NIST SP 800-193 standards & secure media sanitization standards meeting NIST SP 800-88		
		System lockdown support to lock down configuration and firmware, protecting the server from inadvertent or malicious changes		
		Secure default passwords during transit		
		Persistent event logging including user activity		
		Drive security, including secure system erase for HDD, SSD & NVMe		
		Dynamically enabled / disable USB ports to protect from USB-based attacks		
		Protection against compromised firmware execution		
		UEFI secure boot with custom certificates		
		Intrusion alert in case chassis being opened		
17	System Management	Manufacturer's system management software supporting virtual media, virtual folders, remote file share & virtual console		
18	Access & management	Integrated remote access controller & software should support advanced agent-free local and remote server administration & support for features like configuration, firmware updates, OS deployment, health monitoring & diagnostics, automation of routine management activities with perpetual license		
19	Certifications & benchmarks	Relevant product datasheets, certification, benchmark or reference documents verifiable from publicly available data sources must be submitted along with bill of material for detailed bid evaluation. Links for certifications to be submitted.		
20	Authorization	"Manufacturer Authorization Letter" specific to the tender, signed digitally or by OEM's Board authorized signatory has to be submitted.		
21	MIl local content	MIl Local Content declaration signed digitally or by OEM's Board authorized signatory has to be submitted.		

22	Warranty	3 years comprehensive next business day on-site support. Warranty listing in OEM support site		
GPU Node (Qty.1 no)				
SI No.	Parameter	Minimum specification	Complied	Remarks
1	Make & model	<i>(Please specify make & unique model name)</i>		
2	Form Factor	Maximum 2U rack mount server with front locking bezel, cable manager, sliding rails & accessories		
3	Processor	2 x AMD EPYC 9124 3.0GHz, 16C/32T, 64M Cache (200W) DDR5-4800		
4	Memory	512GB (16 x 32GB) RDIMM, 5600MT/s, Dual Rank scalable upto 2TB		
5	GPU Card	4 x NVIDIA Ampere A2, PCIe, 60W, 16GB Passive, Single Wide, Full Height GPU,V2		
6	NVMe Drive	1 x 960GB Data Center NVMe Read Intensive AG Drive U2 with carrier		
7	I/O Slots	Minimum PCIe 5.0 2 x16 slots.		
8	Network Port	Minimum 2 x 1GbE (RJ-45) and 2 x 10G Base-T		
9	OS certification	Certified for latest version of Red Hat Enterprise Linux, SUSE Linux Enterprise Server, Microsoft Windows Server, Ubuntu & VMWare		
10	EAL certification	System's integrated remote management hardware & tool should be minimum Evaluation Assurance Level (EAL) EAL2+ certified. Certificate from Common Criteria Portal to be submitted		
11	RPS	80Plus Platinum certified redundant power supplies (certification evidence from 80Plus portal to be submitted)		
12	Fans	Fully populated redundant hot-swap system fans		
13	Other Interfaces	1 x 1Gbps system management port (RJ-45), 1 x video port, 3 x USB ports		
14	System health	Monitoring fan, power supply, memory, CPU, RAID, NIC & proactive reporting for impending failure		
15	BIOS	System should boot with & run the BIOS of the OEM make (manufacturer) that is quoted to evaluate intellectual property, MII compliance & security. All updates should happen only using quoted OEM's access controller & management software to enforce security.		
16	Security	Publicly available links, verifiable evidence must be submitted against each of the feature below		
		Silicon-based Hardware Root of Trust		
		Automatic BIOS recovery		
		Firmware drift detection & alerting		

		Cryptographically signed firmware updates		
		Cryptographically verified trusted booting standards meeting NIST SP 800-147B, NIST SP 800-155, protection standards meeting NIST SP 800-193 standards & secure media sanitization standards meeting NIST SP 800-88		
		System lockdown support to lock down configuration and firmware, protecting the server from inadvertent or malicious changes		
		Secure default passwords during transit		
		Persistent event logging including user activity		
		Drive security, including secure system erase for HDD, SSD & NVMe		
		Dynamically enabled / disable USB ports to protect from USB-based attacks		
		Protection against compromised firmware execution		
		UEFI secure boot with custom certificates		
		Intrusion alert in case chassis being opened		
17	System Management	Manufacturer's system management software supporting virtual media, virtual folders, remote file share & virtual console		
18	Access & management	Integrated remote access controller & software should support advanced agent-free local and remote server administration & support for features like configuration, firmware updates, OS deployment, health monitoring & diagnostics, automation of routine management activities with perpetual license		
19	Certifications & benchmarks	Relevant product datasheets, certification, benchmark or reference documents verifiable from publicly available data sources must be submitted along with bill of material for detailed bid evaluation. Links for certifications to be submitted.		
20	Authorization	"Manufacturer Authorization Letter" specific to the tender, signed digitally or by OEM's Board authorized signatory has to be submitted.		
21	MII local content	MII Local Content declaration signed digitally or by OEM's Board authorized signatory has to be submitted.		
22	Warranty	3 years comprehensive next business day on-site support. Warranty listing in OEM support site		

1. Desktop (Qty.5) :

Items	SpecificationName	BidRequirement(Allowed Values)
Processor	ProcessorMake	Intel
	ProcessorGeneration	12orhigher
	Numberof Cores perProcessor	6or more

	ProcessorDescription	12th Generation Intel Core i5 12500 (18 MB Cache, 6 Cores, 12 threads, 3.00 GHz to 4.60 GHz Turbo)
	Cache(MB)	18
Motherboard	ChipsetSeries	Intel H Series chipset. Motherboard make from the same desktop OEM (OEM logo must be embossed in the motherboard)
	Chipset Number	H770 or better
	Security	Discrete TPM 2.0
	Expansion Slots (PCIex 16) (Number)	1
	Expansion Slots (PCIex 1) (Number)	1
	Legacy Slot (PCI) (Number)	1
	Expansion Slots (# of M.2)	2
Graphics	Graphics Type	Dedicated Graphics Card
	Graphics Name	Intel Arc A380 6 GB GDDR6 or higher
Certification	ROHS Compliance	Yes
	BEE/Energy Star for the given Model	Yes
	FCC, UL, CE (for the quoted Desktop model not for the quoted Desktop series)	Yes (all)
	ISO (OEM)	ISO 9001, 14001, 20000-1, 27001
	EPR Authorization (OEM)	Yes
	EPEAT India Gold (for the quoted desktop model)	Yes
	TCO Certification for quoted Monitor	9.0 or latest
Operating System	Operating System (Factory Pre-Loaded)	Factory pre-install Windows 11 professional (64 bit) or higher with latest Service Pack and Preloaded License. Systems Hardware drivers should be available in OEM website against the offered model. OEM letter confirming that Operating system pre-loaded/pre-installed from OEM factory only.
	OS Certification	Windows Certification in Public Domain. Ubuntu Linux Certification. Linux Certification available in Public Domain.
Memory	RAM Size (GB)	32 (1x32) GB DDR5 4800 MT/s or more
	RAM Expandability	Minimum 64 GB DDR5 4800 MT/s or more
Power	Power Supply Capacity (Watt)	Min 350W
	Minimum Power Efficiency Range (%)	90-92
Storage	Type of Drives used to populate the Internal Bays	SSD (NVMe)
	Total SSD Capacity (GB)	512 GB
Connectivity	Wireless Connectivity	No

	Number of Ethernet Ports	1
	Type of Ethernet Ports	10/100/1000 onboard Integrated Gigabit Port

Ports	NumberOf USBVersion 2.0Ports	4
	NumberOfUSBVersion3.2Gen1 Ports	3
	NumberOfUSBVersion3.2Gen2 Ports	2
	Number of USB Type-C port	1
	NumberOfHDMIPorts	1
	NumberOf VGA/DisplayPorts	1
Cabinet	CabinetFormFactor	Tower
	Volume and Weight	Not more than 16 L / 5.5 Kg
Monitor (SameDesktop OEMMake)	MonitorTechnology	VA
	LEDBacklitMonitorSize (INCHES)	21.5orhigher
	MonitorResolution(PIXELS)	1920x1080Orhigher
	Number of VGA Ports in theMonitor	1
	NumberOfHDMIPorts intheMonitor	1
	TypeofconnectorcablewithhMonitor	HDMI
InputDevices	MouseConnectivity	USBOpticalscrollmouse (samedesktopOEMmake)
	KeyboardConnectivity	USBKeyboard(SameDesktopOEMmake)
Warranty	OnSite OEMWarranty(Year)	3(OEMsuppliedDesktopmodelwarrantymustbe visible in the OEM website in respect to eachproductserial number)

Additional Parameters:

1. Technical compliance should be on OEM letterhead.
2. OS undertaking should be on OEM letterhead.
3. Warranty undertaking should be on OEM letterhead.
4. The quoted Desktop model should have Microsoft Windows 11 certification and EPEAT Gold Certification (INDIA).
5. TCO 9.0 certification for Monitor.
6. OEM of Desktop should be ISO 9001, ISO 14001, ISO 20000-1, ISO 27001
7. Pre-loaded operating system Windows 11 Pro. Factory preloaded Need confirmation from OEM on their letterhead.
8. Ubuntu Linux Certification. Linux Certification available in Public Domain.

Additional Specification Parameter:

Specification Parameter Names	Bid Requirement (Allowed Values)
ProcessorDescription	12th Generation Intel Core i5 12500 (18 MBCache,6Cores, 12threads, 3.00 GHzto 4.60GHzTurbo)
FCC,UL,CE for the given Model.	Yes
The quoted model should have HARDWARE TPM version 2.0 or better	Yes
Dedicated Audio Line in port/ Dedicated Audio Line Out port	Yes
Headphone Out/Microphone in	Yes or through Audio Combo Jack
Power Supply Capacity(Watt)	Minimum 350 or better
Minimum Power Efficiency Range (%)	90-92
Cabinet Form Factor	Tower
Volume and Weight	Not more than 16 L / 5.5 Kg
Expansion Slots (PCIe 4.0 x16) (Number)	1
Expansion Slots (PCIe 3.0 x1) (Number)	1
Legacy Slot (PCI) (Number)	1
LED Backlit Monitor Size (INCHES)	21.5 inch or higher
ISO (OEM)	ISO 9001,14001,20000-1, 27001
Chipset Number	H770 or better

1. Switch - 1 (Qty.1) :

S.No.	Technical Specifications		Complied (Yes /No)	Remarks
1	Physical Specifications	8x 10G/5G/2.5G/1G 1000BASE-T RJ-45 Copper Ports		
		2x 10G SFP+ Uplink		
2	Performance Specification	Bandwidth: 200Gbps line-rate, Mean Time Between Failures (MTBF): 818,977.9 hours, Forwarding modes: Store-and-forward, 16K MAC or higher, VLAN: 512, Min. 600 MHz Single Core 1GB RAM 256MB SPI FLASH. Loop detection & prevention, DNS Client, Option to enable/disable BPDU flooding when,STP is disabled, Option to enable/disable the flooding of EAPOL,when 802.1x is disabled. Energy Efficient Ethernet (EEE) IEEE 802.3az		
		Packet buffer: 2 MB, Jumbo frame: Up to 9K packet size		
3	IEEE Network Protocols	IEEE 802.3ad Trunking (LACP), IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree Protocol, IEEE 802.1s Multiple Spanning Tree Protocol, IEEE 802.1X Radius		

		network access control.		
4	Network Security and Traffic	IGMP snooping (v1, v2 and v3), MLD snooping support (v1 and v2) IGMP snooping querier, MLD snooping querier (v1), Multicast groups 512 Multicast VLAN Registration (MVR), Broadcast, Unicast, Multicast Protection, MAC lockdown by the number of MACs, IEEE 802.1x Radius Port Access Authentication, IEEE 802.3ad - LAGs - LACP (16 LAGS with max. of 8 members in each LAG), L2 MAC, L3 IP and L4 Port ACLs, IEEE 802.1p COS, WRR (Weighted Round Robin)		
5	Management	Web browser-based GUI (HTTP/HTTPS), NETGEAR Insight mobile app or Insight Cloud Portal for local or remote management Text-based LiteCommandline Interface (CLI) RMON, SNMP. HTTPS/TLS Web-based access (version) (v1.2), HTTP firmware upload/download, File transfers (uploads, downloads) TFTP / HTTP, Dual software (firmware) image Memory and flash log, Syslog (Server)		
6	Environmental Conditions	Operating Temperature: 32° to 122°F (0° to 50°C), Operating Humidity: 90% maximum relative humidity, non-condensing		
		Storage Temperature: – 4° to 158°F (–20° to 70°C), Storage Humidity: 95% maximum relative humidity, non-condensing		
7	Certifications	CE, FCC Class A, RCM, ICES Class A, VCCI, KC, BSMI, UKCA, CB, CSA, KC		
8	Warranty and Support	Limited Lifetime*		
		OEM should provide replacement with New product, No Refurbish products.		

2. Switch – 2 (Qty.1) :

S.No.	Technical Specifications		Complied (Yes / No)	Remarks
	24-port 1000base-T Gigabit L2 Smart Managed Switch			
1	Physical Specifications	24 # 10/100/1000 Base-T auto-sensing ports		
		4 dedicated 1G/10G Base-X Fiber SFP+ ports		

2	Performance Specification	Bandwidth: 128 Gbps non-blocking, Mean Time Between Failures (MTBF): 10,00,000hours, Forwarding modes: Store-and-forward, 16K MAC or higher, VLAN: 256, 32 Static Routes, Min. 800MHz Single Core 512MB DDR RAM 64MB FLASH,		
		Packet buffer: 1.5 MB, Jumbo frame: up to 10Kb		
3	IEEE Network Protocols	IEEE 802.3 Ethernet IEEE 802.3u 100BASE-T IEEE 802.3ab 1000BASE-T IEEE 802.3af PoE IEEE 802.3at PoE+ IEEE 802.3az Energy Efficient Ethernet (EEE) IEEE 802.3ad Trunking (LACP) IEEE 802.3z Gigabit Ethernet 1000BASE-SX/LX IEEE 802.3x Full-Duplex Flow Control IEEE 802.1Q VLAN Tagging IEEE 802.1AB LLDP with ANSI/TIA-1057 (LLDP-MED) IEEE 802.1p Class of Service IEEE 802.1D Spanning Tree (STP) IEEE 802.1s Multiple Spanning Tree (MSTP) IEEE 802.1w Rapid Spanning Tree (RSTP) IEEE 802.1x RADIUS Network Access Control		
4	Network Security and Traffic	IGMP Snooping, IGMP Querier and IGMP Fast Leave for multicast optimization, Broadcast, Unicast, Multicast Protection, MAC lockdown by the number of MACs, IEEE 802.1x Radius Port Access Authentication, IEEE 802.3ad - LAGs - LACP (16 LAGS with max. of 8 members in each LAG), L2 MAC, L3 IP and L4 Port ACLs, IEEE 802.1p COS, WRR (Weighted Round Robin) IEEE 802.1Q VLAN tagging, IP-based VLANs, MAC-based VLANs, Auto-VoIP, Voice VLAN, Auto-Video VLAN, GARP with GVRP. Broadcast, multicast, unknown unicast, storm control, IEEE 802.3ad - LAGs (LACP) IEEE 802.3x (full duplex and flow control), IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree, Protocol IEEE 802.1s Multiple Spanning Tree Protocol, Layer 2 DHCP Relay. 16 LAGs with max 8 members in each LAG		
5	Management	Web browser-based GUI (HTTP/HTTPS), NETGEAR Insight mobile app or Insight Cloud Portal for local or remote management Text-based LiteCommandline Interface (CLI) . 802.1ab LLDP, SNMP v1, v2, v3, RMON group 1,2,3,9		
6	Environmental Conditions	Operating Temperature: 32° to 122°F (0° to 50°C), Operating Humidity: 90% maximum relative humidity, non-condensing		
		Storage Temperature: – 4° to 158°F (–20° to 70°C), Storage Humidity: 95% maximum relative humidity, non-		

		condensing		
7	Certifications	CE, FCC Class A, RCM, ICES Class A, VCCI, KC, BSMI, UKCA, CB, CSA, KC		
8	Warranty and Support	Min. 5 years hardware replacement warranty, without any extra cost		
		OEM should provide replacement with New product, No Refurbish products.		

3. Server Rack 27U (Qty.1) :

Sl. No.	Minimum Required Specification	Compliance (Yes/No)	Remarks
1	27U, 800mm Width & 1000mm Depth Floor Standing Server Enclosure		
2	Confirms to DIN 41494 OR equivalent ISO Standards		
3	Adjustable 19" equipment mounting verticals provide the better mounting flexibility maximizing the usable mounting space		
4	Depth adjustable mounting slots		
5	Top and bottom Panel with ventilation and cable entry facility		
6	Powder coated finish with pretreatment process meeting all industry standards		
7	OEM Certification: ISO 14064-1: 2006		
8	Castors Set of 4Nos.		
9	Adjustable Levellers set of 4		
10	Front Glass Door		
11	Rear Metal Door-Vented Dual		
12	Side Panels -Vented (Set of 2)		
13	Mounting Hardware-(Pack of 20)		
14	FHU with 2 FAN 180CFM		
15	Vertical Power Distribution Unit with 12 x 5/15 sockets Round Pin, 230 Volts AC, 32 Amp with Plug		
16	Horz. Cable Manager-1U-Loop		
17	The Rack OEM should have valid ISO 9001 & ISO 14001 & ISO 45001 for design & development of networking products. Documents need to be submitted along with the tender.		

18	The Rack OEM should be in the business in India for last 25 years as on the date of release of the RFP. Document need to be submitted.		
19	The Rack OEM should have Average Annual Financial Turnover not less than 250 Crores in India for each of the last five financial years. Document need to be submitted.		
20	The Rack OEM should have their own sales office & own service center in West Bengal. OEM declaration / document need to be submitted.		
21	Rack OEM should have one single order of rack for min. 1000 nos. from any Govt Dept / PSU / Govt. undertaking within last eight financial year from the date of RFP. Document must to be submitted.		
22	The OEM must not be blacklisted or banned by any State/Central Government, Semi-Government or PSU and any other GOVT. organization in INDIA		

4. Online UPS 6KVA with 15min, backup (Qty.1) :

Sl.No.	Minimum Technical Specifications		Compliance	Remarks
			Yes/No	
1	Capacity (in kVA / kW)	6kVA 1-Phase Input / 6 KW 1-Phase Output DSP Controlled IGBT Rectifier		
2	Input			
3	Voltage Range:	100 – 280 VAC (Load Dependent)		
4	Frequency range	40Hz – 70Hz		
5	Power factor	Greater than 0.95 at full load.		
6	Output			
7	Nominal voltage:	220/230/240 VAC		
8	Crest factor	3:1 On Full Load (Minimum)		
9	N+X Upto 4 Systems	Require		
10	AC-AC Efficiency	95% .		
11	Battery VAH	Min.3456VAH for 15min. Back up		
12	Protection	IP-20		
13	Communication Port	REPO , USB Port, RS-232 Port,		
14	Display Panel (In-build LC Display & LED)			

15	Measurements (On LCD)	Input: Voltage & Frequency, Bypass: Voltage & Frequency, Output: Voltage, frequency, Kilowatt & kVA, Battery: Remaining time & Battery Level Indicator, Load Percentage & Load Level Indicator, Ambient temperature.		
16	Fault Indication (On LCD)	Inverter O/P voltage abnormal, Overload shutdown, Charge voltage too high, Damaged Batteries, Battery missing, Battery voltage too low & Over temperature Protection.		
17	Battery Backup / Battery Bank & Charger			
	Backup Required	15min		
	Battery Bank Voltage	Min. 192 VDC		
18	Certifications			
19	Manufacturer	QMS: As per ISO 9001: 2015		
		EMS: As per ISO 14001: 2015		
		ISO 45001: 2018 TL9000		
20	Product Safety Certifications (Mandatory)	SURGE: IEC61000-4-5: level 4		
		CS: IEC61000-4-6: level 3		
		IEC61000-4-8		
		IEC 61000-2-2		
		EN 62040-2:2006		
		EN 61000-3-2:2009		
		CE & RoHS		
21	2 Years for UPS Warranty and 2 Years for Battery .OEM should have Min. 400Cr. Turn over for last 3 years			

5. Firewall (Qty.1) :

Sl. No.	Specification	Compliance (Yes/No)	Remarks
A	Security Features		
1	Integrated Security Appliance which have these features from day 1 - Firewall, VPN, IPS, Web filtering, Botnet Filtering, Gateway AV, Anti Spyware, Application Control and Geo-IP protection. The firewall should also support anti-Spam services		

	integrated as a license in the firewall.		
2	The device should be IPv6 ready (Both phase 1 and Phase2), and should support multi-core architecture and not proprietary ASIC based architecture.		
3	Appliance should support IPSec NAT traversal, OSPF, RIP V1 and V2 routing protocol and NAT without degrading the performance of the firewall.		
4	Should support authentication using XAUTH/RADIUS, Active Directory, SSO, LDAP, Novell, Internal user database, terminal Services, Citrix. Shall support atleast 1000 SSO users.		
5	Should have Layer 2 bridge or transparent mode, Wire mode, Sniffer mode /Tap mode		
6	Dual WAN/ISP Support: Should support automatic ISP failover as well as ISPlload balancing for outbound traffic		
7	Network security appliance should support "Stateful" policy inspection technology. It should also have application intelligence for commonly used TCP/IP protocols like telnet, ftp etc.		
8	Should support Dead Peer Detection, DHCP Over VPN, IPSec NAT Traversal, Redundant VPN Gateway, Route-based VPN.		
9	Should provide complete protection by performing full decryption and inspection of TLS/SSL and SSH encrypted connections regardless of port or protocol.		
10	Should proactively detect and block mass market, zero-day threats and unknown malware by inspecting directly in memory		
11	solution should support policy-based routing, Application based routing and also Multi Path routing & Route-based VPN.		
12	Should have capability to look deep inside every packet (the header and data) searching for protocol non-compliance, threats, zero days, intrusions, and even defined criteria. The firewall should support stream/flow-based inspection only without compromising/missing any security features like AV, Windows File Sharing (CIFS), email filter, web filter, VOIP etc.		
13	Should detect and prevent hidden attacks that leverage cryptography, blocks encrypted malware downloads, ceases the spread of infections, and thwarts command and control (C&C) communications and data exfiltration		
14	Should allow total control to customize which traffic is subjected to decryption and inspection based on specific organizational compliance and/or legal		

	requirements.		
15	Vendor & OEM should support the appliance with all necessary upgrade for atleast 3 years from the date of purchase installation along with 3 years security software subscription.		
16	Should scan for threats in both inbound and outbound traffic simultaneously to ensure that the network is not used to distribute malware and does not become a platform for attacks in case an infected machine is brought inside.		
17	Should provide real-time monitoring and visualization provides a graphical representation of applications, users and bandwidth usage for granular insight into traffic across the network.		
18	Should support Route-based VPN that allow dynamic routing over VPN links to ensure continuous uptime in the event of a temporary VPN tunnel failure, by seamlessly re-routing traffic between endpoints through alternate routes.		
19	The firewall must support cloud & appliance-based Sandbox technology and OEM must have own Advanced Threat Protection & Sandboxing solutions including cloud based and appliance based .		
20	Should have H.323 gatekeeper and SIP proxy support to block spam calls by requiring that all incoming calls are authorized and authenticated by H.323 gatekeeper or SIP proxy.		
21	The proposed solution should be scalable and offer fault tolerance to safeguard against hardware failures. The failover should be capable of taking over the traffic without any manual intervention and session loss.		
22	Should support deep packet SSL to decrypt HTTPS traffic for scanning (IPS, Gateway Antivirus, Content Filtering, Application control) transparently for future requirement and then re-encrypt and send to destination if no threat found.		
23	Should have TLS/SSL decryption and inspection engine that decrypts and inspects TLS/SSL encrypted traffic on the fly, without proxying, for malware, intrusions and data leakage, and applies application, URL and content control policies in order to protect against threats hidden in encrypted traffic.		
24	Should have deep packet inspection of SSH to decrypt and inspect data traversing over SSH tunnel to prevent attacks that leverage SSH.		
25	Should have IPv6 and should support filtering and wire mode implementations.		

26	Should support REST APIs that allows the firewall to receive and leverage any and all proprietary, original equipment manufacturer and third-party intelligence feeds to combat advanced threats such as zero-day, malicious insider, compromised credentials, ransomware and advanced persistent threats.		
27	Should have Bi-directional raw TCP inspection. The appliance should be capable of scanning raw TCP streams on any port bi-directionally preventing attacks that they to sneak by outdated security systems that focus on securing a few well-known ports.		
28	Should have extensive protocol support to identify common protocols such as HTTP/S, FTP, SMTP, SMBv1/v2 and others, which do not send data in raw TCP, and decode payloads for malware inspection, even if they do not run on standard, well-known ports.		
29	The firewall should support traffic management option to configure traffic shaping on a per policy basis for specific application/ Specific networks and should be able to define guaranteed bandwidth and maximum bandwidth per policy.		
30	Should identify and block command and control traffic originating from bots on the local network to IPs and domains that are identified as propagating malware or are known CnC points. Appliance should protect against DOS & DDOS attacks.		
31	Should have anti-evasion technology by using extensive stream normalization, decoding and other techniques ensure that threats do not enter the network undetected by utilizing evasion techniques in Layers 2-7		
32	Should not buffer traffic before scanning for IPS and must support inbound and outbound IPS scanning. It should scan the entire traffic and not few specific kilobyte of the session.		
33	Should be integrated solution with appliance-based firewall on a single chassis with multi core processor.		
34	The device should be featured with Gateway Antivirus and DPI SSL Scanning.		
35	The OEM should have regular update of its attack signature database and the same should be configurable to update the signatures automatically without manual intervention. The new attack signatures and new major software releases should be available in OEM website for free download.		
36	Should not buffer traffic before scanning for virus. Should have capacity to scan unlimited file size without buffering them.		

37	Should be an unlimited user based appliance. Firewall must support inbound and outbound Antimalware /Antispyware scanning. Should identify and block command and control traffic originating from bots on the local network to IPs and domains that are identified as propagating malware or are known CnC points.		
38	Should enforce acceptable use policies and block access to HTTP/HTTPS websites containing information or images that are objectionable or unproductive with Content Filtering Service and Content Filtering Client.		
39	Should block content using the predefined categories or any combination of categories. Filtering can be scheduled by time of day, such as during office or business hours, and applied to individual users or groups.		
40	URL database should have at least 15 million sites and 70 + categories.		
41	There should be a proposed sandboxing solution which should be cloud based or appliance based and employ sandboxing engine for effective scanning. Should have support for analysis of a broad range of file types, either individually or as a group, including executable programs (PE), DLL, PDFs, MS Office documents, archives, JAR, and APK plus multiple operating systems including Windows, Android, Mac OS X and multi-browser environments.		
42	The cloud or appliance Sandbox should have technology that detects and blocks malware that does not exhibit any malicious behavior and hides its weaponry via encryption. Should detect and block mass-market, zero-day threats and unknown malware.		
43	The Firewall should have the capability to block/prevent from Side Channel attacks.		
44	The firewall should have single pass, low latency inspection system that performing stream-based, bi-directional traffic analysis at high speed without proxying or buffering to effectively uncover intrusion attempts and malware downloads while identifying application traffic regardless of port and protocol.		
45	Should have ability to prevent potentially malicious files from entering the network. Should have support for files sent to the proposed cloud sandbox for analysis to be held at the gateway until a verdict is determined.		
46	Should have continuously updated database of tens of millions of threat signatures residing in the sandbox servers and referenced to augment the capabilities of the onboard signature database, providing deep packet inspection with extensive coverage of threats. Should support min 20K DPI signatures, 70 millions Cloud AV signatures and		

	3500+ Application Signatures from day 1.		
47	Firewall must have cloud based sandboxing from day 1 and cloud based sandboxing must have capability to scans 10Mb of files size at a time and without any day limit.		
B	Hardware and Interface Requirements		
1	The proposed hardware based firewall should not consume more than 1RU Rack- mountable space		
2	The product should have minimum of 8x1Gb Cu interfaces and 2x1/2.5Gb SFP interface from day 1.		
3	Appliances should have dedicated 2 USB 3.0 Port, Console Port & Management port.		
C	Firewall Performance Requirement		
1	The Firewall should have at least 2 Gbps of Application inspection throughput.		
2	The Firewall should have at least 1.2 Gbps of Anti-malware inspection throughput		
3	The Firewall should have at least 1.5 Gbps of threat protection/prevention throughput.		
4	The Firewall should have at least 2 Gbps of IPS throughput.		
5	The Firewall should support at least 1M connections, 600 Mbps of TLS inspection throughput and 35K of SSL/TLS sessions /connections.		
D	Licensing and Certification		
1	The devices should not have license restriction on number of users. The license should the following subscriptions from day 1 - Firewall, Gateway Anti-Virus, Anti Spyware, Intrusion Prevention and Application Intelligence and Control, URL/Content Filtering and Advance Threat Prevention/ Protection including advance sandboxing .		
2	The Firewall should support regulatory compliance like FCC Class A, CE, UL etc.		
3	OEM should have scored minimum 97% in Exploit Block rate and minimum 94% Security Effectiveness in the last NSS Lab report for NGFW (2019)		
4	The Firewall OEM must be ICSA Lab certified for Network Firewall, Anti-virus and ATD and should have detection rate of 99% or higher.		
5	Firewall solution should be certified under Common Criteria program (global or the Indian Common Criteria Certification Scheme (IC3S) has been set up by the Ministry of Electronics and Information		

	Technology (MeitY)) program for Protection Profile.		
6	The OEM should have own SOC service and extended warranty . The NGFW firewall should support no-cost firewall warranty offers limited compensation for covered losses that lead to business interruption from Non-volumetric DDOS attack and Unauthorized remote access types of events.		
E	Logging and reporting		
1	Should have reporting facility to generate reports on virus detected over different protocols, top sources for viruses, destination for viruses, top viruses etc.		
2	Firewall shall support on prem or cloud management and reporting solution.		
3	Should have options to generate reports in different formats.		
4	The solution should have configurable options to schedule the report generation.		
F	Warranty		
1	Proposed Solution should support 24x7 web-based technical support. OEM should have TAC and R&D centre in INDIA.		
2	Manufacturer's warranty should be mentioned minimum 03 (Three) years warranty including all services like GAV, IPS, Antispyware or antimalware, CFS, Application control, BoT protection , Advance Threat Protection, Patch & Firmware upgrade.		

Additional Terms & Conditions for Desktop:

1. Bidder must have valid ISO 9001:2015, 14001:2015, ISO/IEC 27001, ISO/IEC 20000-1:2018. Desktop OEM Should have ISO9001,14001,20000-1, 27001 .If the bidder does not have the above ISO certificates they will have to upload an undertaking that they will complete those certifications within 7 days of technical evaluation if they are declared L1.
2. Bidders should have relevant experience in the categories mentioned and should provide credentials of this kind of work in the last three financial years.
3. Bidder should provide bid specific OEM authorization (Mandatory for Desktop) to ensure their support for this work.
4. Desktop, Monitor, Laptop must be same OEM make.
5. For Desktop: Windows certification in public domain & Ubuntu Linux Certification. Linux Certification available in Public Domain.
6. Top 3 OEM as per latest IDC report.

7. Bidder should have local office in Eastern in Kolkata. Office registration certificate/trade license should.
8. OEM must have a Functional Service Centre in and around Kolkata. As lot of service is involved this is mandatory.
9. Escalation Matrix for Support Service: After sales service/facilities are to be elaborated clearly. Bidder/OEM must provide Escalation Matrix of Telephone Numbers for Service Support.
10. Bidders have to provide a valid Trade License, GST certificate, PAN, Cancelled Cheque/ Bank Mandate (authorized by Branch Manager). Each document including ATC to be signed by the authorized person of bidder with company stamp. The compliance Certificate of Product should be provided on the OEM letterhead with the Bid number duly signed by the manufacturer.
11. Power of attorney or letter of authenticity of the signing authority should be provided by the OEM along with compliance.
12. Successful bidder will have to ensure that adequate number of dedicated technical service personals /engineers are designated / deployed for attending to the Service Request in a time bound manner and for ensuring Timely Servicing / rectification of defects during warranty period, as per Service level agreement indicated in the relevant clause of the bid. Bidder must provide online ticketing tool for any issues raised if they receive the order.
13. The bidder should not be under liquidation, court receivership or similar proceedings and should not be bankrupted. Bidder must upload undertaking in this regard with all the relevant documents
14. The bidder should be of positive net worth for the last three years ending 2022-23. Bidder and OEM should be in same line of business for last 10 years in India.
15. The bidder must ensure after sale service during the Defective and liability period after notification from the concerned department.
16. Local delivery and insurance shall be obtained by the bidder at their own cost to the final destination of installation. For delivery goods at site, the insurance shall be obtained by the supplier at their own cost from warehouse of the supplier to the final destinations of installation defined as project site on "All Risks" basis including war risks and strikes. It will be the sole responsibility of the supplier to file the claim, if any, with the insurance company immediately after delivery of goods at project sites. **"University of Calcutta"** shall not be responsible for any loss to the supplier.
17. Bidder should be strictly as per technical specification elaborated in the bid document; no deviation will be accepted.
18. Data Sheets of the product(s) offered in the bid, are to be uploaded along with the bid documents. Buyers will match and verify the Data Sheet with the product specifications offered. Such offered specifications have to outline the offered parameters. In case of any unexplained mismatch of technical parameters, the bid is liable for rejection. **For Desktop: Technical compliance statement of the offered products along with public URL of the quoted products in OEM letterhead to be submitted in the bid.**
19. **During evaluation, the bidders may be invited for clarification/ information or additional documents or original hard copy of any of the documents already submitted, may be sought from them & if these are not produced within the stipulated time frame, their bid will be liable to rejection.**
20. Bidders who do not comply with any of the conditions are liable to be rejected. No bidder shall be entitled for any compensation whatsoever for rejection / non consideration of the tender.

21. If any information furnished by the bidder is found incorrect or false at a later stage, he/she shall be liable to be debarred from tendering /ordering.
22. Carrying, loading, unloading, installation, testing, commissioning and integration of the components/equipment purchased are to be done by supplier(s) at our premises. It will be treated that all the charges for the same is included in quoted price. **Compatibility on new system with existing system has to be ensured by the bidder.**
23. Bidder and OEM must not be blacklisted at “**University of Calcutta**” or any Government Organization in Country. A declaration to the effect must be submitted.
24. 100% payment of the total price of all the goods given in the purchase order shall be paid by the **University of Calcutta** to the supplier/bidder against delivery, inspection at site in good condition, installation, commissioning, testing and acceptance by the concerned department. **University of Calcutta** will make the payment through electronic transfer i.e. RTGS/NEFT for which details (Name of the Bank, Branch name, Account Number, IFSC & MICR Code) shall be provided by the supplier.
25. The final order quantities may be varied at the time of ordering as per Bid Guidelines.
26. The tender/contract/order shall be interpreted in accordance with the laws of the Union of India and all disputes shall be subject to local jurisdiction.
27. As per OEM/manufacture terms and conditions, warranty as mentioned in the above BOQ after successful installation & commissioning of the equipment. In case of any replacement during warranty period the same shall be replaced free of cost on CIF. Warranty/service will be irrespective of delivery location of the items installed at different branches of the **University of Calcutta**. The warranty of the items must be verifiable from OEM website. OEM Must have 24x7 telephonic/help desk support system facility. Further, the warranty status should be verifiable from the OEM website against the serial number of the supplied products. The website address where from such verification can be done must be mentioned in the bid document. No parts, accessories, licenses of the systems should be excluded from such warranty.
28. The supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination i.e. **University of Calcutta**. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. The packing, making and documentation within and outside the packages shall comply strictly with such special requirements as shall be provided for in the contract.
29. Bid should be strictly as per Technical Specifications elaborated in the Bid documents; no deviations will be accepted.
30. Bidder (s) should sign on all the pages of the relevant documents.
31. Bid documents can be downloaded from Bid site. The downloaded documents shall be treated as valid document for participation in the tender. Documents to be uploaded must be signed.
32. Price bid will be opened only of the technically eligible bidders.

33. **University of Calcutta** reserves the right to accept or reject any bid and to annul the bidding process and reject all bids at any time prior to contract award, without thereby incurring any liability to the affected bidder or bidders.
34. It will be responsibility of the bidders to check Bid portal for updation, if any.
35. Any change request of change from the bidder should be submitted through Bid Portal.
36. The installation, testing & commissioning of above shall be made/completed **within 30 days** from the date of receipt of the purchase order.
37. It will be the responsibility of bidders to supply, assemble, install and commission of the all systems along with OS installation in the desktop.
38. The bidders are requested to mention their complete address with mobilenummer and e-mail ID in the bid.
39. Consortium is not allowed and No Partial Quote will be accepted.
40. **Past Performance** : The Bidder or its OEM (themselves or through re-seller/s) should have supplied same or similar category products for 20% of bid quantity, in at least one of the last three financial years before the bid opening date to any Central/Sate Govt. organization/ PSU/ Public Listed Company. Copies of relevant contracts (providing supply of cumulative order quantity in any one financial year) to be submitted along with bid in support of quantity supplied in the relevant financial year. The bidder should upload copies of purchase orders/contract & receipt/ acceptance of supplied material or any document showing proof of supply to establish the past performance, else the submitted bid will be summarily rejected.
41. **Average Annual Turnover:** Average Annual Turnover for the OEM should be at least 125 crores with minimum 100 crores in any one of the last 3 years.
42. **Force majeure Clause:** If the work(s) be delayed for the following reasons: -
Due to war, internal emergency and other conditions such as abnormally bad weather, flood, cyclone natural calamity or serious loss or damage by fire or civil commotion, the contractor shall immediately give notice thereof in writing to the Bidportal, but shall nevertheless use constantly his/her best endeavours to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of **University of Calcutta** to proceed with the works.
43. Bidder should have a toll-free number and an online call reporting system. The number should be provided and the URL should be mentioned. In case the bidder does not possess these facilities, it has to be created within 10 days of award of the contract if becomes L1. Undertaking in this regard has to be uploaded with the bid. Dishonoring this undertaking will attract penal action during the currency of the contract.
44. The bidder must upload the declaration with supporting document/s related to countries sharing land border with India on their Letterhead as they have registered with the competent authority to participate in this bid.
45. **Delivery, Installation, warranty support Address:** Ionosphere Field Station, Haringhata, University of Calcutta, Mondouri, P.S. Bijpur, 24 Pgns (N), WB-743145.

46. "Bidders are requested to submit offers as per the detailed technical specifications mentioned in Bid's Technical Compliance under Buyer Added Bid Specific ATC Clause

47. Deliver & Installation should be as per ATC.

48. Land Border Declaration as per Annexure-II

49. Local Content Letter as per Annexure-III

Note:

"Bidders are requested to submit offers as per the detailed technical specifications mentioned in Bid's Technical Compliance under Buyer Added Bid Specific ATC Clause."

<On Organization Letter Head>

(For Goods/ Services Contracts)

CERTIFICATE

I have read the clause related to insertion of Rule 144 (xi) in the General Financial Rules 2017 vide O.M No.F.7/10/2021-PPD(1) dated 23rd February, 2023 (Public Procurement No.4) and any amendment made thereafter of the Ministry of Finance regarding restrictions on procurement from a bidder and OEM of a country which shares a land border with India and hereby certify that this bidder and OEM is not from such a country.

OR (whichever is applicable)

I have read the clause related to insertion of Rule 144 (xi) in the General Financial Rules 2017 vide O.M No.F.7/10/2021-PPD(1) dated 23rd February, 2023 (Public Procurement No.4) and any amendment made thereafter of the Ministry of Finance regarding restrictions on procurement from a bidder of a country which shares a land border with India and hereby certify that this bidder and the OEM is from _____ (Name of Country) and has been registered with the Competent Authority. I also certify that this bidder fulfills all the requirements in this regard and is eligible to be considered.(Copy/ evidence of valid registration by the Competent Authority is to be attached)

AND

I have read the clause regarding restriction on procurement from a bidder and the OEM having Transfer of Technology (ToT) arrangement. I certify that this bidder does not have any ToT arrangement requiring registration with the competent Authority

OR (whichever is applicable)

I have read the clause regarding restrictions on procurement from a bidder and the OEM having Transfer of Technology (ToT) arrangement. I certify that this bidder has valid registration to participate in this procurement.

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

Signature of Bidder/Agent

Name: _____

Designation: _____

Organization Name: _____

Contact No. : _____

*****Declaration of both bidder and OEM should be submitted along with the bid, else the bid may be rejected.**

Self declaration to be provided on company's letterhead

Ref.No.:

Date:Date with Company Seal

Self-Certificate for Local Content for Desktop

A. *We [name of manufacturer] hereby confirm in respect of quoted item(s) that Local Content is equal to or more than 50% and come under 'Class-I Local Supplier' Category. The percentage of local content is_. As being 'Class-I Local Supplier', we are eligible for Purchase Preference under 'Make in India' Policy vide GoI Order no.P-45021/2/2017-PP(B.E.-II) dated 16th September, 2020. The stated local content shall not include the services such as transportation, insurance, installation, commissioning, training and after sales service support like AMC/CMC etc. as local value addition.

OR

*We[name of manufacturer] hereby confirm in respect of quoted item(s) that Local Content is equal to or more than 20% but less than 50% and come under 'Class-II Local Supplier' Category. The percentage of local content is_____. The stated local content shall not include the services such as transportation, insurance, installation, commissioning, training and after sales service support like AMC/CMC etc. as local value addition

*Strike out whichever is not applicable

B. The details of the location(s) at which the local value addition made is/are as

under: 1.....

2.....

3.....

C. Country of Origin _____

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

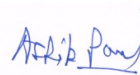
Date: Seal & Signature of the Bidder

Note:ClarificationforlocalcontentcalculationasperOMNo.P-45021/102/2019/BE-II-Part(1)(E50310), dated March 4, 2021 of Government of India, Ministry of Commerce and Industry, Department of Promotion of Industry and Internal Trade, Public Procurement Section.

Bill of Quantity (BOQ) :

Name of Work: Supplying, installation and commissioning of different types of servers at various department such as Computer Science Department, Dept. of Applied Optics and Photonics and Radio Physics and Electronics Department under the University of Calcutta.

SL No.	Name of the Item	Qty	Unit	Basic Rate (Including loading, unloading, carriage etc. all complete)	GST	Total amount (Including All taxes including loading, unloading, carriage etc. all complete)
01.	1 set of HPC	01	Set			


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INSTRUCTIONS TO BIDDERS

Earnest Money (EMD):- Intending bidders are requested to deposit Rs. 124000/- online through his net banking enabled bank account, maintained at any bank or: offline – through any bank generating NEFT/RTGS challan from the e-tendering portal. Intending bidder will get the beneficiary details from e-tender portal with the help of Digital Signature Certificate and may transfer the EMD from their respective Bank as per the Beneficiary Name & Account No., Amount, Beneficiary Bank name (ICICI Bank) & IFSC Code and e-Proc Ref No. Intending bidder who wants to transfer EMD through NEFT/RTGS must read the instruction of the Challan generated from E-Procurement site.

For getting exemption of EMD: - Bidders are requested to upload the relevant NSIC / MSME Registered Certificate against each item work for getting exemption of EMD, failing which their Tender will be rejected. For that they need to select the EMD page as Yes and provide the exemption type as fixed and put the actual EMD amount in Rupees and upload the exemption document.

(Bidders are also advised to submit EMD of their bid, at least 3 working days before the bid submission closing date as it requires considerable time for processing of Payment of EMD.)

N.B.: During evaluation of the tender , the bidder may be requested to produce original hard copy of any of the documents for verification, failing which his/her tender will be liable to rejection.

Important Dates:

Sl. No.	Particulars	Date & Time
1	Date of uploading of N.I.T. & other documents (Online)	04.12.2025 ; 06:30 pm
2	Start of downloading documents (Online)	04.12.2025 ; 06:30 pm
3	Start of Bid submission (Online)	04.12.2025 ; 06:30 pm
4	Close of Bid Submission (Online)	05.01.2026 ; 01:00 pm
5	Date of opening of technical bid (Online)	07.01.2026 ; 01:00 pm
6	Date of uploading list of Technically Qualified Bidders (Online)	To be communicated later
7	Date of opening of Financial Bid (Online)	To be communicated later

Instructions / guidelines for electronic submission of tenders have been annexed for assisting the contractors to participate in e- tendering.

- I. Registration of Bidder:** - Any bidder willing to take part in the process of e –tendering will have to be enrolled & registered with the Government e – Procurement system through logging on to <https://wbtenders.gov.in>. The bidder is to click on the link for e – Tendering site as given on the web portal.
- II. Digital Signature Certificate (DSC):** - Each bidder is required to obtain a class - II or class – III Digital Signature Certificate (DSC) for submission of tenders from the approved service provider.
- III. Collection of Tender documents:** - The bidder can search & download NIT & Tender documents electronically from computer once he/she logs on to the website mentioned in Clause 1 using the Digital Signature Certificate. This is the only mode of collection of Tender documents.
- IV. Cost of Earnest Money (EMD)**

Earnest Money (EMD) Quoted INR
Rs. 124000/- (To be deposited Online)

V. Submission of Tenders:-

- a. General process of submission:** - Tenders are to be submitted through online to the website <https://wbtenders.gov.in> in two folders at a time for each work, one is Technical bid and other is Financial Bid, before the prescribed date and time using the Digital Signature Certificates.
- b. Technical Bid:-** Technical Bid contains scanned copies of the followings further in two covers (folder)
- c. Online bid submission (Bidder/Contractor) process in <https://wbtenders.gov.in> portal,** download the pdf file.
<https://wbtenders.gov.in/>

VI. Statutory Cover Containing

- i. For NIT and Corrigendum if any (Download the NIT and upload the same by through digital signature).

VII. NON-STATUTORY DOCUMENTS containing the following documents (Up to date as on date):

Sl.No.	Category	Sub Category	Sub-Category Description
A.	Certificates	Certificates	1. PAN Card
			2. Professional Tax Registration Certificate
			3. GST Registration Certificate
			4. Valid Trade License in similar nature of job.
			5. NSIC / MSME Registered Certificate for getting Exemption of EMD.
			6. For non-registered organizations under NSIC/MSME, EMD documents are to be enclosed.
B.	Credential	Credential for satisfactory completion of similar nature of job amounting to 75% of the quoted value in a single tender in the last three (03) financial years in Government, or Government Undertaking or any State Aided University. Only completion certificate of the work will be considered as Credential of works.	

C.	Financial Information	P/L AND BALANCE SHEET FOR LAST 03 (three) FINANCIAL YEAR.
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Rejection of Bid:

Tender Committee reserves the right to accept or reject any Bid and to cancel the Bidding processes & reject all Bids at any time prior to the award of Contract without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the ground for Tender Committee's action.

Note: Failure of submission of any of the above mentioned documents, the tender will be rejected.

VIII. Financial Bid:- BOQ in INR (in excel sheet)

- i) The financial bid should contain the following documents in one cover (folder) i.e. Bill of Quantities (BOQ). The Bidder has to quote the rate through online in the space marked for quoting rate in the BOQ.
- ii) Only downloaded copies of the above documents are to be uploaded, virus scanned & digitally signed by the contractor.

IX. Opening & Evaluation of Tender:-

Opening of Technical Bid:

- i) Technical bid will be opened by the Central Tender Committee. Intending bidders may remain present if they so desire. Statutory Cover (folder) would be opened first & if found in order and correct Non Statutory Cover (folder) will be opened. If there be any deficiency in the Statutory & Non statutory documents the tender will summarily be rejected.
- ii) Decrypted (transformed in to readable formats) documents of the non statutory cover will be downloaded & handed over to the evaluation committee.
- iii) List of technically qualified bidders would be uploaded.

NB: While evaluation, the Tender committee may invite the bidders & seek clarification/ information or additional documents or original hard copy of any of the documents already submitted. For any anomaly or deviation in this regard, his/her tender will be rejected.

X. Opening and evaluation of Financial Bid:

Financial bid of bidders declared technically eligible by the Committee will be opened electronically from the web portal on the prescribed date and time.

XI. Penalty for suppression / distortion of facts:

Submission of false document by bidder is strictly prohibited and will be liable for rejection of the tender and blacklisted.

GENERAL TERMS AND CONDITIONS OF THE CONTRACT

1. **Time Extension:** Time is the essence of the contract, generally no time of extension will be allowed. But, in case of Force Majeure, the extension of time may be considered on the basis of actual situation and subject to consideration of the Tender Inviting Authority.

2. **Refund of Earnest Money Deposit (EMD):** Earnest Money Deposit (EMD) furnished by all unsuccessful bidders should be returned to them without any interest whatsoever, at the earliest after the expiry of the final bid validity period but not later than forty five days after the award of the contract.

Earnest Money Deposit (EMD) of the successful tenderer should be returned, without any interest whatsoever, after receipt of performance security Deposit from him as stipulated in the contract.

3. **Forfeiture of Earnest Money Deposit (EMD):** Earnest Money Deposit (EMD) of a tenderer shall be forfeited, if the tenderer withdraws or amends its tender or impairs or derogates from the tender in any respect within the period of validity of his tender. Further, if the successful tenderer fails to furnish the required performance security within the specified period, his Earnest Money Deposit (EMD) shall be forfeited.

4. **Security Deposit :** The University authority will retain a sum amounting to 10% of the bill of the contract for a period of six months from the date of completion of work as **Security Deposit**. This will be released after a period of six months from the date of completion of the work on application.

5. **Refund of Performance Security:** Performance Security will be refunded to the contractor without any interest, whatsoever, after he/she duly performs and completes the contract in all respects but not later than sixty days of completion of all such obligations under the contract.

6. **Forfeiture of Performance Security deposit :** Performance security will be forfeited and credited to University of Calcutta in the event of a breach of contract by the tenderers, in terms of the relevant contract.

7. **Verification of the Bank Guarantees:** Bank Guarantees submitted by the tenderers as Earnest Money Deposit (EMD)/Performance Security need to be immediately verified from the issuing bank before its acceptance, through written communication.

8. Work is to be carried out as per specification mentioned in the tender documents.

9. The materials brought to site for execution of the work should by no means be taken out of site without the permission of the office of the undersigned.

10. The University will not be bound to accept the lowest bidder.

11. The University will not supply any materials to the contractor.

12. The contractor will work under the strict supervision of the undersigned. The contractor will have to submit bill in printed format in duplicate.

18. The contractor will have to take necessary instruction from the **concerned department** regarding the execution of work.

13. **After issuing the work order to the successful tenderer, if he/she fails to commence the work or unable to complete the work, then the EMD and Performance security amount of the said tenderer will be forfeited and no claim will be entertained.**

14. Termination Clause:

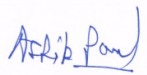
- i. Failing to supply and commissioning of the items as per work order within the stipulated time, the contract will be rejected except application of Force majeure Clause and EMD will be forfeited.
- ii. If any deviation of quality and specification from the stipulated specification as per B.O.Q observed, the purchase order will be cancelled and EMD will be forfeited.

15. Force majeure Clause: If the work(s) be delayed for the following reasons:-

Due to war, internal emergency and other conditions such as abnormally bad weather, flood, cyclone natural calamity or serious loss or damage by fire or civil commotion, the contractor shall immediately give notice thereof in writing to the Central Tender Committee but shall nevertheless use constantly his/her best endeavors to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the Central Tender Committee to proceed with the works.

16. Mode of payment: -

After completion of the work as per work order or any subsequent work order against the original work order the triplicates bills (RA/Final bill) duly checked and verified by the concern department with the completion certificate by the concern department and should be submitted to the office of the undersigned within 10 days after completion of the work.


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