

ODISHA SPACE APPLICATIONS CENTRE
Dept. of Science & Technology, Govt. of Odisha
Plot No.45/48(P), Jayadev Vihar, Near Gopabandhu Academy of Administration
Unit-16, Bhubaneswar-751 023

Tender for Part-A (1) Blade Server, (2) Microsoft Windows Server 2016 paper License (3) Core i7 Desktop, (4) i5 Desktop Computer, (5) Xeon Workstation, (6) 3D Monitor and (7) Microsoft Office 2019 Paper License Part-B (1) A3 Laser Color Printer on Buy Back mode and (2) A4 B/W Laser Printer (3) Plotter-cum-Scanner on Buy Back mode.

ORSAC Advt. No. 20/2018

Sealed tenders are invited from established and accredited Original Equipment Manufacturer (OEM)/authorized dealers for supply, installation and commissioning of **Part-A** (1) Blade Server, (2) Microsoft Windows Server 2016 paper License (3) Core i7 Desktop, (4) i5 Desktop Computer, (5) Xeon Workstation, (6) 3D Monitor and (7) Microsoft Office 2019 Paper License **Part-B** (1) A3 Laser Color Printer on Buy Back mode and (2) A4 B/W Laser Printer (3) Plotter-cum-Scanner on Buy Back mode to Odisha Space Applications Centre, Bhubaneswar.

For details please visit Website <http://www.odisha.gov.in> and ORSAC website: <http://www.orsac.gov.in> or in the above office for the tender papers.

Date of issue of Tender Paper	:	05.12.18 to 01 P.M. of 26.12.18
Pre-bid Meeting	:	12.12.18 at 11.30 A.M.
Last date of submission of Tender	:	27.12.18 by 01PM
Opening of Technical Bid	:	27.12.18 at 03.30 PM

ORSAC reserves the right to accept/reject/modify & cancel the full tender or part thereof at any time without assigning any reason thereof.

CHIEF EXECUTIVE

ODISHA SPACE APPLICATIONS CENTRE
Dept. Of Science & Technology, Govt. of Odisha
Plot No.45/48(P), Jayadev Vihar, Near Gopabandhu Academy of Administration
Unit-16, Bhubaneswar-751 023

TENDER NOTICE No.20/2018

Sealed tenders are invited from established and accredited Original Equipment Manufacturers (OEM)/authorized dealers having annual turnover of more than Rupees 50 lakhs for supply, installation & commissioning of the under mentioned items of the following specifications and quantities at Odisha Space Applications Centre, Bhubaneswar.

Sl. No	Item Description	Unit	Quantity	Cost of tender paper
Part-A				
1	Blade Server for existing HP C-3000 Blade Chassis	No.	Two (2)	Rs.10,000/-
2	Microsoft Windows Server 2016 paper License	No.	Two (2)	
3	Core i7 Desktop Computer on Buy Back mode	No.	Sixty (60)	
4	Core i5 Desktop Computer on Buy Back mode	No.	Thirteen (13)	
5	Xeon Workstation on Buy Back mode	No.	Two (2)	
6	3D Monitor	No.	Two (2)	
7	Microsoft Office 2019 (Paper License)	No.	One hundred twenty five (125)	
Part-B				
2	A3 Laser Color Printer on Buy Back mode	No.	One (1)	Rs.3,000/-
3	A4 B/W Laser Printer	No.	Three (3)	
3	Plotter-cum-Scanner on Buy Back of VIDAR Scanner	No.	One (1)	

1) Non-transferable tender documents will be available from Odisha Space Applications Centre (ORSAC), Bhubaneswar on payment Rs.10,000/- for Part-A and Rs.3,000/- for Part-B in shape of Demand Draft drawn in favour of Odisha Space Applications Centre. The tender document can be down loaded from the ORSAC website: <http://www.orsac.gov.in> and Govt. of Odisha web site <http://www.odisha.gov.in>. The downloaded bid document can also be used provided it is accompanied with a crossed Demand Draft of Rs. 10,000/- for Part-A and Rs.3,000/- for Part-B towards cost of the tender document payable at Bhubaneswar drawn in favour of Odisha Space Applications Centre. Tenderers interested to receive tender documents by Registered Post should pay additional amount of Rs.200/- (Rupees Two hundred) only. However, ORSAC will not be responsible for postal delays in delivery of the documents.

- 2) The company must be ISO certified company. Company having service centre facility at Bhubaneswar shall be preferred.
- 3) The Tenderers are required to furnish self attested copies of GST registration certificate issued by the competent authority of the State of Odisha / other states as applicable along with the tender.
- 4) The Tenderers are required to deposit Rs.3,00,000/- (Rupees three lakhs) only for Part-A and Rs.50,000/-(Rupees fifty thousand) only for Part-B respectively as Earnest Money Deposit (**EMD**) in shape of Bank Draft payable at Bhubaneswar drawn in favour of Odisha Space Applications Centre, Bhubaneswar.
- 5) Performance security shall be deducted from Bills as per guidelines given in the tender documents.
- 6) The items conforming to required specifications are to be delivered to the consignee (ORSAC) at Bhubaneswar in Odisha and the tenderer has to quote the rates giving details of taxes, levies charges, premium etc. separately as stated in the tender document.
- 7) The tenders should be submitted after due compliance with guidelines given in the tender documents under Schedule (A) Conditions of Contract, Schedule (B)- Technical specifications, Schedule(C)- Delivery Destination, Schedule (D)- Bid Form & Schedule (E)- Price Schedule Tenders submitted in incomplete form shall be rejected outright.
- 8) The filled in sealed tenders containing Technical Bid and Price Bid in double cover system as per instruction given in tender documents, shall be submitted in the Office of the ORSAC, Bhubaneswar by Registered Post, Courier service or dropping in the tender box. Tenders received after due date and time shall not be entertained.
- 9) The tenders shall submit the tender document with due indexing for compilation of tender document during opening of the tender.
- 10) The tender papers will be available for sale in the office of the ORSAC between **11 AM to 4.30 PM** on Odisha govt. official working days till **1 PM of 26.12.2018**. The sealed tenders will be received till **01.00 PM of 27.12.2018** in Office of the ORSAC. The technical bids will be opened on **27.12.2018 at 03.30 PM** in presence of the Tenderers or their authorized representatives, if they so desire. The opening of price bids will be announced later on. Price Bids will be opened in respect of only those tenderers who qualify in the technical bid assessment.
- 11) ORSAC reserves the right to cancel any or all tenders without assigning any reason thereof.

CHIEF EXECUTIVE

Schedule (A) – Conditions of contract for Tender No. 20/2018

- 1) The Tender papers include instructions issued in the Tender notice along with the Schedule (A) - Conditions of Contract, Schedule (B) – Technical Specifications, Schedule (C) – Delivery Destination, schedule (D) – Bid Form, Schedule (E) – Price Schedule.
- 2) The Tenderers shall submit the following documents and information with the tender. Lack of complete and adequate information under any of the parameter may render the bid disqualified. The technical document shall be tagged and indexed properly to find out the below documents easily.

a) Technical Documents:

- i) Copy of Tender Notice
- ii) Acceptance of Schedule (A) & Schedule (B)
- iii) Documentary evidence that the tenderer is either Original Equipment Manufacturer (OEM) or authorized dealer of the OEM with the end to end support from OEM, a confirmation letter from OEM shall be produced.
- iv) Self-attested copies of GST Registration certificate from the competent Authority of the State of Odisha/ other state as applicable.
- v) Technical information of product released by the OEM.
- vi) Documents in support of supplies made during last 2 years to different Govt. and public sector undertaking.
- vii) The firm should submit an undertaking for providing service/maintenance during the warranty period effective from the date of commissioning with terms & conditions as well as for taking Annual maintenance contract (AMC) after the warranty period.
- viii) Bank draft of Rs. 10,000/- (Rupees ten thousand) only for Part-A and Rs.3,000/- (Rupees three thousand) only for Part-B towards tender paper cost.
- ix) Self-attested copies of Audited Balance Sheet for last 3 years
- x) Service facility at Bhubaneswar & outside.
- xi) Bidder should have registered office at Bhubaneswar from last 5 year, the registration certificate should be provided.
- xii) The bidder should not be under a declaration of ineligibility for corrupt and fraudulent practices issued by Government of India or any State Governments and No criminal proceedings in any court law should pending against the bidding firm or its board of Directors, self-declaration under the seal of the head/authorized employee of the organization is to be submitted.
- xiii) Copy of the ISO certificate.
- xiv) Bank draft of Rs.3,00,000/- (Rupees three lakhs) only for Part-A and Rs.50,000/- (Rupees fifty thousand) only for Part-B drawn in favour of Odisha Space Applications Centre towards EMD.

b) For Price Bid:

- i) Acceptance of Schedule (C) Delivery destination
- ii) Filled up Schedule (D) – Bid form
- iii) Filled up Schedule (E) – Price Schedule

- 3) The quoted rates shall be for destination mentioned in the Schedule (C) Delivery Destination, inclusive of all taxes, duties, levies, charges, transportation cost, transit insurance cost. The item should be shown separately along with the basic rate. Prices written in words shall be accepted in case of any discrepancy. Rates with conditionality or provision of escalation will be rejected.
- 4) Validity of period of the Tender shall be 60 days from the date of opening of the price bid.
- 5) The items are to be delivered in good condition at ORSAC, Bhubaneswar as mentioned in the Schedule (C) for delivery destination.
- 6) The H/W & S/W should be new and unused. The items shall be of reputed OEM and should also confirm to latest models, designs and standards i.e. as per Schedule-B. ORSAC reserves the right to purchase whole or part of the items as required.
- 7) If any item fails to satisfy requirement of standards, the item shall not be accepted and the tenderer at his own cost shall remove it from point of delivery.
- 8) Items are to be delivered within 30 days of issue of purchase order.
- 9) The tenderer shall give a minimum warranty period of 5 years from the date of commissioning of the items at destination and shall submit a declaration from OEM regarding the same.
- 10) The tenderer has to rectify defects in the items supplied within 7 days of issue of intimation during the warranty period, failing which an amount of one percent of performance security will be forfeited per day of delay.
- 11) If the tenderer fails to supply the items within prescribed time period it shall be treated as breach of contract. The EMD may be forfeited and the supply order cancelled for which the tenderer shall remain fully responsible without any liability of ORSAC.

ORSAC may consider receiving the items beyond stipulated date by imposing liquidated damage of 0.50 (zero point five zero) percent of cost per week of delay subject to maximum penalty of 5% of the value of each item inclusive of all taxes, duties, levies and charges. Part of the week shall be reckoned as one week.

- 12) Tenders are to be submitted in a double cover system. The 1st sealed envelope should be marked as Technical Bid and shall contain the Technical Documents and the 2nd sealed envelope shall contain the Price Bid and should be marked as Price Bid. Both the 1st and 2nd sealed envelopes are then to be put inside a 3rd envelope duly marked "**Supply, installation & commissioning of Part-A (1) Blade Server, (2) Microsoft Windows Server 2016 paper License (3) Core i7 Desktop, (4) i5 Desktop Computer, (5) Xeon Workstation, (6) 3D Monitor and (7) Microsoft Office 2019 Paper License Part-B (1) A3 Laser Color Printer on Buy Back mode and (2) A4 B/W Laser Printer (3) Plotter-**

cum-Scanner on Buy Back mode". From and to addresses shall be written on each of the envelopes.

- 13) Submission of sealed tenders shall be by Registered Post, courier service or dropping in the tender box. ORSAC shall not be responsible for postal or courier service delays or missing of the documents during transit. Tenders reaching late (as per time mentioned in the Tender Notice) shall not be considered by ORSAC.
- 14) Conditional Tenders may be rejected. Decision of the ORSAC authorities in this regard shall be final.
- 15) **Terms of Payment** : Payment to the successful tenderer shall be made only after items are received in good and serviceable condition as per conditions stipulated in the tender documents along with required documents submitted to ORSAC in support of Bills. 90% of the bill amount will be released after successful commissioning & operational of the system & 10% of the Bill amount will be retained towards "**Performance Security**". This amount can be released on submission of Bank Guarantee for equal amount issued by any Nationalized Bank at Bhubaneswar, which will remain valid till three months beyond the warranty period.
- 16) The tenderer shall not raise any claim in any manner after the Bill amounts are cleared against the purchase order.
- 17) In case of any dispute between the Tenderers and ORSAC regarding interpretation of Tender document conditions, the decision of the Chief Executive, ORSAC shall be final and binding.
- 18) Jurisdiction of Court – Civil Suits, if any, arising out of the contract shall have to be filed at Bhubaneswar under Khurda district. Writ petitions, Civil & Criminal, shall be filed in the High Court of Orissa, Cuttack.
- 19) Payment will be released only after execution of an agreement between the successful tenderer and ORSAC in Non Judicial stamp paper containing the terms and conditions as stated above.
- 20) The EMD amount shall be returned to the successful tenderer after receipt of Performance Security amount and signing of agreement with successful tenderer.

Accepted the above conditions under schedule (A) of tender.

(Signature of Tenderer)

Name:

Address:

Schedule (B) – Technical Specification for Tender No.20/2018

Specification for **Part-A** (1) Blade Server, (2) Microsoft Windows Server 2016 paper License (3) Core i7 Desktop, (4) i5 Desktop Computer, (5) Xeon Workstation, (6) 3D Monitor and (7) Microsoft Office 2019 Paper License **Part-B** (1) A3 Laser Color Printer on Buy Back mode and (2) A4 B/W Laser Printer (3) Plotter-cum-Scanner on buy back mode.

PART-A		
No	Description	Quantity
Item-1	Blade Server for Existing HP C-3000 Blade chassis	2
Item-2	Microsoft Windows Server 2016 paper license (as per item-1 server core)	2
Item-3	Core i7 Desktop (On Buy-Back Mode)	60
Item-4	Core i5 Desktop (On Buy-Back Mode)	13
Item-5	XEON Workstation (On Buy-Back Mode)	2
Item-6	3D Monitor	2
Item-7	Microsoft Office 2019 (Paper License)	125

BLADE SERVER FOR EXISTING BLADE CHASSIS (HPE C3000): Quantity-02 Nos

#	Features	Minimum Specification
1	CPU	Two numbers of Intel Xeon Latest 16 core @ 2.6GHz or better/higher processors
2	CPU L3 cache	As per offered processor
3	Motherboard	Intel C6XX Series Chipset compatible to offered processor
4	Memory	288 GB scalable to at least up to 1TB, using DDR4 RDIMM/LRDIMM memory modules @2666MHz. Features of identifying original OEM memory installed or not
5	Memory Protection	Advanced ECC with multi-bit error protection and memory in online spare mode
6	Hard disk drive	2 x 2.4 TB hot plug SFF SAS drives.
7	Storage Controller	PCIe 3.0 12G SAS RAID Controller, RAID 0 and 1, Minimum 1G Battery backed Cache
8	Networking features	Dual port 10Gb Converged network Ethernet. Bidders may offer same/higher as per compatibility with existing/required interconnect module for the Blade Chassis)
9	Interfaces	Minimum of 1 x internal USB 3.0 port and 1 x internal SDHC card slot
10	Bus Slots	Minimum of 2Nos of 3.0 PCIe x16 based mezzanine slots supporting Converged Ethernet, Ethernet, FC adapters, and SAS adaptors
11	Graphics	Integrated video controller
12	Industry Standard Compliance	ACPI 2.0, USB 3.0 Support, IPMI 2.0, Secure Digital 2.0, TPM 1.2 Support, IEEE, AES, 3DES, SNMP, SSL 2.0, DMTF, SMASH CLP, Active Directory v1.0, PCIe 3.0, ASHRAE A3
13	Security	Power-on password, Administrator's password, Keyboard password (Quick Lock), Out of band remote management Chipset with: SSL encryption, Secure Shell version 2, Advanced Encryption Standard (AES) and Triple

		Data Encryption Standard (3DES) on browser, CLP and XML scripting interface, AES and RC4 encryption of video, External USB port ,Network server mode, Serial interface control, TPM (Trusted Platform Module) 1.2 option Advanced Encryption Standard (AES), Intel® Advanced Encryption Standard-New Instructions (AES-NI)
14	OS Support	Compatible with Microsoft Windows Server, Red Hat Enterprise Linux (RHEL), SUSE Linux Enterprise Server (SLES), Canonical Ubuntu, VMware, Citrix XenServer
15	Secure Encryption	Encryption of the data on both the internal storage and cache module of the array controllers using encryption keys shall be supported along with local key management for single server and remote key management for central management for enterprise-wide data encryption deployment.
16	Warranty	Five year comprehensive onsite warranty (Bidders need to access the warranty of the existing blade chassis installation and provide additional warranty as would be required in this regard)
17	Others	Role-based security features
		Proactive notification of actual or impending component failure alerts on critical components like CPU, Memory and HDD.
18	Integration with existing blade chassis	Offered blade Servers shall be compatible to the existing blade chassis (HPE c3000). Bidders need to access the same and provide all required interconnect and/or HBA modules along with accessories/cables/firmware/software for this proposed deployment.
19	OS	Microsoft Windows Server 2016 paper license (as per server core)

ADDITIONAL INTERCONNECT MODULES FOR EXISTING BLADE CHASSIS (HPE C3000):

Quantity-As per the solution need

#	Features	Minimum Specification
1	Ethernet Interconnect Module	Bidders need to provide additional Ethernet interconnect modules along with relevant 10G Ethernet uplink transceivers/cables to provision HA in the existing HPE c3000 blade chassis.
2	FC interconnect module	Bidders need to provide additional FC interconnect modules along with relevant 8G FC uplink transceivers/cables to provision HA in the existing HPE c3000 blade chassis.
3	Warranty	Five year comprehensive onsite warranty (Bidders need to access the warranty of the existing blade chassis installation and provide additional warranty as would be required in this regard)

Core i7 Desktop (On Buy-Back Mode)

Quantity-60 nos

S. No.	Feature	Specifications
1	Processor	Intel® 8th Generation Core i7-8700 6 Core CPU with minimum base frequency of 3.2 GHz, 12MB Cache or better
2	Motherboard/Chipset	Intel Q370 chipset OEM Motherboard with OEM logo imposed on the motherboard (No Sticker)
3	Memory	32GB (2X16GB) Expandable up to minimum 64GB Four DIMM slots; Non-ECC dual-channel upto 2666 MT/s DDR4 SDRAM
4	Hard Disk Drive	1 X 512GB or more SSD, 2 X 2TB 7200RPM SATA III 6G 3.5in
5	Optical Drive	8X DVD Writer
6	Graphics	NVIDIA GeForce GTX1070 8GB or better
7	Audio	High Definition Integrated Audio with Internal Speaker in chassis of atleast 2W power
8	Ethernet	Integrated Intel Gigabit (10/100/1000 NIC) LAN
9	Slots	Minimum 4 Full Height PCI/PCIe Slots (2xPCIex1 & 1 x PCIex16, 1 PCIex4), & 3 M.2 PCIe x1)
10	Bays	Minimum 5 bays with atleast (2) 3.5" Drive bays & (1) ODD bay
11	Ports	Minimum 10 USB Ports (6 USB 3.1 Gen 1 & 4 USB 2.0) & atleast 1 USB Type C Ports (1) VGA video port; (2) DisplayPort/DVI-D Port (1) RJ-45 network connector (1) RS-232 serial port (1) Universal Audio jack in front (1) one headphone jack in front (2) PS/2 keyboard and mouse ports
12	Form Factor	Tower
13	Power Supply	500 W Power Supply with 91% efficiency or better
14	Keyboard/Mouse	USB 104 keys keyboard (Same make as PC) USB 2 Button Scroll Mouse (Same make as PC)
15	Operating System	Genuine Microsoft Windows 10 Pro 64-bit
16	Diagnostic Tool	Inbuilt Pre-Boot BIOS Diagnostics
17	Security	TPM 2.0 Security Chip Support for RAID SATA port disablement (via BIOS) Serial, parallel, USB enable/disable (via BIOS) Removable media write/boot control Power-On password (via BIOS) Administrator password (via BIOS) Setup password (via BIOS) Support for chassis padlocks and cable lock devices
18		Energy Star for quoted desktop & Monitor

	Compliance And Certification	EPEAT Certified for India for the CPU & Monitor
		FCC.CE, RoHS, UL Certificate
		TCO Certificate for quoted desktop & monitor
		ISO 9001,14001,20001,27001 for OEM
19	System Weight / Volume	Weight should be not more than 10 KG and volume no more than 21L
20	Information Accessibility	Product details, specifications and brochure to be available in public domain
21	Support	Drivers should be available for download from OEM site for at least 3 years from the date of purchase order
22	Market Credibility	The OEM vendor should be of positive net worth for the last three years
23	Monitor	23.8 " or higher IPS Monitor with FHD Resolution of 1920 x 1080, TCO 7.0 Certification or higher
24	Warranty	5 Years onsite

Core i5 Desktop (On Buy-Back Mode)		
		Quantity-13 nos
S. No.	Feature	Specifications
1	Processor	Intel® 8th Generation Core i7-8600 6 Core CPU with minimum base frequency of 3.10 GHz, 9MB Cache or better
2	Motherboard/Chipset	Intel Q370 chipset
		OEM Motherboard with OEM logo embossed on the motherboard (No Sticker)
3	Memory	16GB (2X8GB) Expandable up to minimum 64GB
		Four DIMM slots; Non-ECC dual-channel upto 2666 MT/s DDR4 SDRAM
4	Hard Disk Drive	1 X 512GB or more SSD, 1 X 2TB 7200RPM SATA III 6G 3.5in
5	Optical Drive	8X DVD Writer
6	Graphics	NVIDIA GeForce GTX1070 8GB or better
7	Audio	High Definition Integrated Audio with Internal Speaker in chassis of atleast 2W power
8	Ethernet	Integrated Intel Gigabit (10/100/1000 NIC) LAN
9	Slots	Minimum 4 Full Height PCI/PCIe Slots (2xPCIex1 & 1 x PCIex16, 1 PCIex4), & 3 M.2 PCIe x1)
10	Bays	Minimum 5 bays with atleast (2) 3.5" Drive bays & (1) ODD bay
11	Ports	Minimum 10 USB Ports (6 USB 3.1 Gen 1 & 4 USB 2.0) & at least 1 USB Type C Ports
		(1) VGA video port; (2) DisplayPort/DVI-D Port
		(1) RJ-45 network connector
		(1) RS-232 serial port
		(1) Universal Audio jack in front
		(1) one headphone jack in front
		(2) PS/2 keyboard and mouse ports
12	Form Factor	Tower

13	Power Supply	500 W Power Supply with 91% efficiency or better
14	Keyboard/Mouse	USB 104 keys keyboard (Same make as PC) USB 2 Button Scroll Mouse (Same make as PC)
15	Operating System	Genuine Microsoft Windows 10 Pro 64-bit
16	Diagnostic Tool	Inbuilt Pre-Boot BIOS Diagnostics
17	Security	TPM 2.0 Security Chip
		Support for RAID
		SATA port disablement (via BIOS)
		Serial, parallel, USB enable/disable (via BIOS)
		Removable media write/boot control
		Power-On password (via BIOS)
		Administrator password (via BIOS)
		Setup password (via BIOS)
		Support for chassis padlocks and cable lock devices
18	Compliance And Certification	Energy Star for quoted desktop & Monitor
		EPEAT Certified for India for the CPU & Monitor
		FCC.CE, RoHS, UL Certificate
		TCO Certificate for quoted desktop & monitor
		ISO 9001,14001,20001,27001 for OEM
19	System Weight / Volume	Weight should be not more than 10 KG and volume no more than 21L
20	Information Accessibility	Product details, specifications and brochure to be available in public domain
21	Support	Drivers should be available for download from OEM site for at least 3 years from the date of purchase order
22	Market Credibility	The OEM vendor should be of positive net worth for the last three years
23	Monitor	19.5 " or higher IPS Monitor with FHD Resolution of 1920 x 1080, TCO 7.0 Certification or higher
24	Warranty	5 Years onsite

XEON Workstation		
		Quantity-02 nos
Sl. No.	Features	Qualifying Minimum Requirements
Workstation Details		
1	Processor	Dual Intel® Xeon® Gold 6152 processor
2	Chipset	Intel C622 Chipset
3	RAM	768GB ECC, DDR4, 2400 MHz memory; 24 DIMM Slots - all slots should be on motherboard itself. Option for upgradeability up to 3 TB
4	Hard Disk	512 GB SSD and 2x4TB Drives Provision for upgrading with additional 8 drives to be provided.
5	Optical Drive	9.5mm Slim SuperMulti DVD Writer
6	Graphics Card	NVIDIA® Quadro® P6000 1st GFX 24GB Graphic
7	Monitor	Monitor Details attached in the next sheet

8	Bays	2 x External 5.25" 4 x Internal 3.5" System should be able to support a total of 16 Hard drives along with a DVD drive.
9	Slots	4 PCIe x16 Gen3 1x PCIe Gen3 x8 slot (x16 mech.) 2x PCIe Gen3 x4 slot (x8 mech.)
10	Ports	Front : 4 x USB 3.1 or higher with 1 charging port, 1 Combo Headset Rear : 4 x USB 3.0 or higher, 6 USB 3.1 Gen1 , 2 nos Integrated GigaBit Lan
11	Keyboard and Mouse	Minimum 104 keys USB Keyboard and USB Optical Scroll mouse - Same make as that of the workstation
13	Audio	High Definition Integrated Audio with Internal speaker.
14	Power Supply	Minimum 1700W 90% Efficient, EPEAT Gold
15	Chassis	Completely tool less chassis with handles in front and rear side. Provision for Kensington lock and Panel lock required. System should be rack-mountable.
16	Operating System	Pre installed Windows 10 Pro for Workstations and system should certified for Red Hat® Enterprise Linux® Desktop 7.4 , SUSE Linux® Enterprise Desktop 12 SP3 ,Ubuntu 16.04 LTS
17	Remote Collaboration Solution	Hardware or Software based Remote Collaboration system which can help remotely access 3D data across network has to be supplied with the system. - It should allow collaboration between multiple participants on an OpenGL 3D or DirectX applications. - It should support One to One for remote work and One to many for collaboration with keyboard and mouse control. - Application should be stateless and should not transfer actual data over the network. - Pixel information or images should be 128 SSL encrypted. - Should work on both Linux and Windows, and should be inter-operable.
18	Additional Software	1. The hardware vendor should supply an automatic system performance tuning and monitoring software on Windows. 2. The tuning software should have modules for resource monitoring over a long period of time, and should be capable of showing GPU utilisation (GPU, Graphics memory and Codec activity) for both Graphics and GPU Compute cards. 3. A complete Offline Diagnostics and Asset Discovery software suite should be supplied along with the system.
19	Warranty	5 years onsite parts and labour warranty for system and monitor
20	Vendor Status	The hardware vendor should be a reputed concern, having global presence in multiple countries. Vendor should have ISO certifications.
21	Authorisation	Vendor should have/submit special authorization from OEM for participating in this NIQ
Monitor Details		
1	Panel Type	Anti-Static, Anti-Glare, 24 inch Wide-aspect (16:9) Active Matrix TFT Panel should be Gen2 IPS with LED Backlighting

2	Viewable Area (diagonal)	60,96 cm (24 in) widescreen; diagonally measured
3	Viewing Angle	Up to 178° H/ 178° V (10:1 minimum contrast ratio)
4	Contrast Ratio	1000:1 (Static); 5000000:1 (Dynamic)
5	Response Rate	8 ms (GtoG)
6	Brightness	300 nits (cd/m2)
7	Color Depth Support	16.7 Million Colors
8	Backlight Lamp Life	30K hours
9	Color Gamut	Size vs. NTSC (CIE 1931) - 72% Coverage of sRGB (CIE 1976) - 99%
10	Native / Maximum Resolution	1920 x 1200 @ 60 Hz
11	Video Input Ports	1 VGA, 1 DisplayPort 1.2 (1.1 compatible), 1 DVI-D; HDCP support on DisplayPort and DVI
12	Video Cables Shipped	1.8m Display cables for at least the DVI port and DisplayPort should be provided.
13	Power Supply	Power supply should be Energy Star and EPEAT Gold certified Auto-Ranging, 100 to 240 VAC; internal power supply, 50 Hz/60 Hz
14	Tilt Range	-5° to + 30° vertical
15	Swivel Range	-45° to + 45°
16	Height Adjustment	Range 120mm
17	Pivot Rotation	90°
18	Environmental Features	Monitor should be RoHS compliant. It should use mercury-free display backlight and arsenic-free display glass.
19	Security	Kensington Lock Ready
20	External Mounting	Quick Release kit for screw-less mounting and removal of the monitor should be supplied integrated. VESA External Mounting ready (Standard 4 hole pattern, 100 mm)
21	Cable Management	Should have cable management features.
22	Software	Vendor should supply software that enables theft deterrence and allows monitor adjustment, color calibration, and security/asset management using the Display Data Channel Command Interface (DDC/CI) protocol of the connected PC or workstation.
23	Warranty	5 years comprehensive onsite.
24	Make	Should be the same as workstation.

3D Monitor		
		Quantity-02 nos
Sl. No.	Feature	Minimum Requirement
1	Screen Size	Minimum 24" inch
2	Aspect Ratio	16:9 or better
3	Resolution	1920×1080 Pixels or higher
4	Pixel Pitch	0.2715 mm
5	Brightness	300 cd/m ²

6	Contrast	1000:1 and Dynamic: 10M:1
7	Fresh Rate	120 Hz
8	Panel Type	TN
9	Viewing Angle	170/160
10	Power Consumption	40 Watt or better
11	VESA Wall Mounting	100x100mm
12	Dimensions	347.4x570x181.3 mm
13	Weight	6.37 Kg
14	Others	D-sub/ DVI-D-DL/ HDMI/ headphone jack Connectors
15	Warranty	5 years comprehensive onsite.

PART-B		
No	Description	Quantity
Item-6	A3 Laser Color Printer (On Buy-back Mode)	1
Item-7	A4 Laser Printer	3
Item-9	Plotter cum Scanner (On Buy-Back of VIDAR Scanner)	1

A3 Laser Color Printer (On Buy-back Mode)		
		Quantity-01 Nos
Sl. No.	Parameter	Specification
1	Type	Color Multifunction Printer
2	Print Technology	LaserJet
3	Functions	Print, Copy & Scan
4	Paper Size	A3
5	Print Speed (A4), Mono & Color	60 PPM or more
6	Duplex Printing	Required, Automatic
7	Duplex Print Speed (A4), Mono & Color	60 IPM or more
8	First Page Out Time	less than 10 seconds or better
9	Print Resolution	1200*1200 dpi or better
10	Scan Type	ADF, Flatbed
11	Scan Speed (Simplex/Duplex)	90 PPM/180 IPM or better
12	Digital Sending Features	Scan to Email, Scan to Network Folder, Multi Pick detect, Auto Crop to Page
13	Copy Speed (A4), Mono & Color Simplex/Duplex	60 CPM/60 CPM or more
14	Multiple Copies	999 or more
15	Resizing	25-400%
16	Processor Speed	1.0 GHz or higher
17	Memory	5 GB or more
18	Hard Disk	320 GB encrypted or higher
19	Duty Cycle	300000 pages or more

20	Recommended Monthly Page Volume	50000 pages or more
21	Connectivity	2 Hi-speed USB 2.0 Host, 1 Hi Speed USB, 1 Gigabit Ethernet 10/100/1000T network, Mobile Printing Capability
22	Input Trays	2*520 sheets Input Tray or more, 100 sheets multi purpose tray or better, 250 sheet ADF Capacity or more
23	Output Tray	500 sheets or more
24	Single Black Toner Yield	50000 pages or more
25	Single Color Toner Yield	50000 pages or more
26	Warranty	Comprehensive OEM Onsite warranty of 5 Years

A4 Laser Printer

Quantity-03 Nos

Sl. No.	Parameter	Specification
1	Type	Mono A4 Printer
2	Print Technology	LaserJet
3	Cartridge Technology	Composite
4	Paper Size	A4
5	Print Speed (A4)	38 PPM or Higher
6	Duplex Printing	Required, Automatic
7	Duplex Print Speed (A4)	30 PPM or more
8	Print Resolution	1200*1200 dpi or better
9	Print Language	PCL 5, PCL 6
10	Processor Speed	1200 MHz or above
11	Memory	128 MB or more
12	Duty Cycle	75000 pages or more
13	Recommended Monthly Page Volume	4000 pages or more
14	Connectivity	1 Hi-speed USB 2.0, 1 Gigabit Ethernet
15	Input Trays	Tray 1 of 100 sheets or more, Tray 2 of 250 sheets or more
16	Output Tray	150 sheets or more
17	Warranty	Comprehensive OEM Onsite warranty of 5 Years

Plotter cum Scanner (On Buy-Back of VIDAR Scanner)

Quantity-01 Nos

Printer	
Type	Large-format color MFP
Printing Technology	Inkjet
Type Of Printing	Colour
Size	A0
Printing Speed	7A0 Per Minute, Upto 14 D/A1 pages per min or more
Printing Resolution	1200 x 1200 Dpi or more
Print Applications	Line Drawings, GIS, Maps, Renderings, Presentations, posters, cloth & banners.
Paper output	High-capacity Stacker or Top-Delivery Stacker

Memory	8192 MB
Hard Disk	500 GB
Scanner	
Integrated Scanner	Required
Scan Speed @ Minimum 200dpi	254 in grayscale & 76 in color mm/sec or more
Scanning Resolution	1200 Dpi
Scan width	Up to 914 mm (36 in)
Maximum scan length	18000 mm (708.66 in) (TIFF), 24-in wide original at 200 dpi), 8000 mm (314.96 in) (JPEG), 5000 mm (196.85 in) (PDF)
Scan format	JPEG, TIFF, PDF 1.7, multi-page PDF 1.7.
Print languages	PCL 3 Win , Adobe PostScript 3, Adobe PDF 1.7, TIFF, JPEG ,P.S
Interface	Ethernet 10/100/1000
USB Port	No
Wi-Fi Connectivity	Not-Available
Media Type	Plain Paper, coated paper, tracing paper, glossy paper, matte paper, satin paper, film, adhesive media, cloth, tyvek
Media Weight Handling Range	70-200 GSM
Ink Color(Minimum)	4 (Cyan, Magenta, Yellow, Black) or more
Roll Handling Capacity	4 or more
Size Of Rolls To Be Handled	40 inch
Manual Cut Sheet Feed	No
Embedded Post Script	Available
Power Consumption In Sleep Mode	24 Watt
Preloaded Softwares Like Scan To File, Print To File Etc.	Available
Power Consumption In Print Mode	460 Watt
Preloaded Softwares Like Scan To File, Print To File Etc.	Available
Warranty	5 Year onsite

SCHEDULE "C" DELIVERY DESTINATIONS

Sl. No	Item Description	Unit	Quantity	Delivery Destination/ Consignee
Part-A				
1	Blade Server for existing HP C-3000 Blade Chassis	No.	Two (2)	ORSAC, Bhubaneswar
2	Microsoft Windows Server 2016 paper License	No.	Two (2)	
3	Core i7 Desktop Computer on Buy Back mode	No.	Sixty (60)	
4	Core i5 Desktop Computer on Buy Back mode	No.	Thirteen (13)	
5	Xeon Workstation on Buy Back mode	No.	Two (2)	
6	3D Monitor	No.	Two (2)	
7	Microsoft Office 2019 Paper License	No.	One hundred twenty five (125)	
Part-B				
1	A3 Laser Color Printer on Buy Back mode	No.	One (1)	ORSAC, Bhubaneswar
2	A4 B/W Laser Printer	No.	Three (3)	
3	Plotter-cum-Scanner on Buy Back of VIDAR Scanner	No.	One (1)	

Accepted the above-mentioned conditions under schedule C of the tender for our item of supply.

Signature of Tenderer

Name:

Address:

SCHEDULE (D) – Bid Form

To

The Chief Executive
Odisha Space Applications Centre
Bhubaneswar

Sir,

I/ we have gone through the Tender Notice relating to supply, installation & commissioning of **Part-A** (1) Blade Server, (2) Microsoft Windows Server 2016 paper License (3) Core i7 Desktop, (4) i5 Desktop Computer, (5) Xeon Workstation, (6) 3D Monitor and (7) Microsoft Office 2019 Paper License **Part-B** (1) A3 Laser Color Printer on Buy Back mode and (2) A4 B/W Laser Printer (3) Plotter-cum-Scanner on Buy Back mode all with 5 years warranty at Odisha Space Applications Centre (ORSAC) and the schedule (A), (B), (C), (D) and (E) of Tender document.

A sum of Rs. _____ (Rupees _____) only is hereby tendered in shape of _____ duly pledged as Earnest Money Deposit (EMD) towards one percent of tendered value. I / we also agree that an amount of ten per cent shall be deducted from my bill towards performance security.

I/ We agree the ORSAC shall be at liberty to forfeit the EMD and performance security as per conditions of the contract in case of defaults on my/ our part in fulfilling contractual obligations.

I/We have gone through all terms and conditions stated in the Tender documents and agree to all the terms and conditions.

(Signature of Tenderer)

Date:

Name:

Address:

Schedule (E) – Price Schedule for Tender supply, installation and commissioning of Part-A (1) Blade Server, (2) Microsoft Windows Server 2016 paper License (3) Core i7 Desktop, (4) i5 Desktop Computer, (5) Xeon Workstation, (6) 3D Monitor and (7) Microsoft Office 2019 Paper License Part-B (1) A3 Laser Color Printer on Buy Back mode and (2) A4 B/W Laser Printer (3) Plotter-cum-Scanner on Buy Back mode with 5 years warranty (Continuation sheet may be used if required and each page to be signed)

Item description (mention as per Tender Notice)	Qty	Unit price @	Details of tax components			Buy Back price	Total price in Rs. (mention in figures and words)	Remark
			Taxes* (Mention each tax separately) in Rs.	Other**Charges (mention each separately) in Rs.	Total (3+4)			
1	2	3	4	5	6	7	8	9
Part-A								
1) Blade Server with 5 years warranty	2							
2) Microsoft Windows Server 2016 paper License	2							
3) i7 Desktop Computer with 5 years warranty	60							
4) i5 Desktop Computer with 5 years warranty	13							
5) Xeon Workstation with 5 years warranty	2							
6) 3D Monitor with 5 years warranty	2							
7) Microsoft Office 2019 Paper License	125							
Part-B								
1) A3 Laser Color Printer with 5 years warranty	1							
2) A4 B/W Laser Printer with 5 years warranty	3							
3) Plotter-cum-Scanner with 5 years warranty	1							

@ Please refer to paragraphs-3 of schedule A

* Specify tax components included in unit price

** Mention installation & commissioning charges if any

(Signature of Tenderer)

Name:

Address: