

**ODISHA SPACE APPLICATIONS CENTRE**  
**Plot No.45/48(P), Jayadev Vihar, Bhubaneswar-751 023**

**ORSAC Tender Notice No.01/2018**

Sealed tenders are invited from established and accredited Original Equipment Manufacturer (OEM)/authorized dealers for supply and installation of High-End Workstation, Desktop Computer and 20 TB Storage 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.

Last date of issue of Tender Paper	:	04.04.2018 till 01.00 P.M
Last date of submission of Tender	:	05.04.2018 by 01.00P.M.
Opening of tender	:	10.04.2018 at 03.30 P.M.

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**

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**TENDER NOTICE No.01/2018**

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
1	High-End Workstation	No.	Two (02)	Rs.5000.00
2	Desktop Computer	No.	Nine (09)	
3	20 TB Storage	No.	One (01)	
	All materials mentioned above with 5 years warranty			

1) Non-transferable tender documents will be available from Odisha Space Applications Centre (ORSAC), Bhubaneswar on payment Rs.5000.00 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.5000.00 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 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.90,000.00 (Rupees Ninety thousand) only 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 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 **04.04.2018**. The sealed tenders will be received till **01.00 PM** of **05.04.2018** in Office of the ORSAC. The technical bids will be opened on **10.04.2018** at **3.30 P.M** 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.

10) 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.01/2018**

- 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.
- iv) Attested copies of GST registration certificate from the competent Authority of the State of Odisha/ other state as applicable.
- v) Attested copies of Service Tax registration certificate and latest Service Tax Clearance Certificate issued by the competent authority.
- vi) Technical information of product released by the OEM.
- vii) Documents in support of supplies made during last 2 years to different Govt. and public sector undertaking.
- viii) 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.
- ix) Bank draft of Rs.5000.00 (Rupees five thousand) only towards tender paper cost.
- x) Attested copies of Audited Balance Sheet for last 3 years
- xi) Service facility at Bhubaneswar & outside.
- xii) Copy of the ISO certificate.
- xiii) Bank draft of Rs.90,000.00 (Rupees Ninety thousand) only 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 conform 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 1<sup>st</sup> sealed envelope should be marked as Technical Bid and shall contain the Technical Documents and the 2<sup>nd</sup> sealed envelope shall contain the Price Bid and should be marked as Price Bid. Both the 1<sup>st</sup> and 2<sup>nd</sup> sealed envelopes are then to be put inside a 3<sup>rd</sup> envelope duly marked "**Supply, installation & commissioning of High-End Workstation, Desktop Computer and 20 TB Storage**". 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 month beyond the Guarantee 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)The EMD amount shall be returned to the successful tenderer after receipt of Performance Security amount.

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

(Signature of Tenderer)

Name:

Address:

**Schedule (B) – Technical Specification for Tender No. 01/2018**

<b>Workstation Specification</b>		
		<b>Quantity - 2</b>
<b>Sl. No.</b>	<b>Features</b>	<b>Qualifying Minimum Requirements</b>
1	Processor	Intel Xeon E5-2697v4 2.3 2400 18C 1stCPU
2	Chipset	Intel C612
3	RAM	256GB DDR4-2400 (8x32GB) 1CPU RegRAM
4	Drive Controllers	Onboard 6-Channel 6Gbps SATA (RAID 0,1,5,10) Onboard 8-Channel SAS 6Gbps controller (RAID 0,1,10) LSI 9270-8i RAID Controller
5	Hard Disk	2 X 4TB 7200 RPM Enterprise SATA 1st HDD, 1.2TB 10K RPM SAS SFF 3rd HDD Provision for upgrading with additional 8 drives to be provided.
6	Optical Drive	9.5mm Slim Blu-ray Writer 1st ODD
7	Graphics Card	NVIDIA Quadro P5000 16GB 4xDP+DL-DVI(D) 1st No cable included Graphics
8	Monitor	27 Inch IPS, LED backlight with VGA, HDMI, DisplayPort Connectivity. Monitors should be the same make as that of the workstation.
9	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.
10	Slots	Minimum requirement: PCIe Gen3 x4 3 x PCIe Gen3 x16 2 x PCIe Gen3 x8 PCIe Gen2 x1
11	Communications	Intel Gigabit Network port with Vpro support.
12	Network interface	Intel Ethernet I210-T1 PCIe x1 gigabit network interface card
13	Ports	Front : 4 x USB 3.0 Rear : 4 x USB 3.0, 2 x USB 2.0, 2 x RJ45 LAN ports with support for Load Balancing and Teaming 1 Serial Port
14	Keyboard and Mouse	Minimum 104 keys USB Keyboard and USB Optical Scroll mouse - Same make as that of the workstation
15	Audio	High Definition Integrated Audio with Internal speaker.
16	Power Supply	Minimum 1120W 90% Efficient, EPEAT Gold, 80 Plus Gold Power supply capable of supporting configurations up to 1450W under 200V Power.
17	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.
18	Operating System	Win 10 Pro 64 for Workstations Plus

19	Remote Collaboration Solution	<p>Hardware or Software based Remote Collaboration system which can help remotely access 3D data across network has to be supplied with the system.</p> <ul style="list-style-type: none"> <li>- It should allow collaboration between multiple participants on an OpenGL 3D or DirectX applications.</li> <li>- It should support One to One for remote work and One to many for collaboration with keyboard and mouse control.</li> <li>- Application should be stateless and should not transfer actual data over the network.</li> <li>- Pixel information or images should be 128 SSL encrypted.</li> <li>- Should work on both Linux and Windows, and should be inter-operable.</li> </ul>
20	Additional Software	<ol style="list-style-type: none"> <li>1. The hardware vendor should supply an automatic system performance tuning and monitoring software on Windows.</li> <li>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.</li> <li>3. A complete Offline Diagnostics and Asset Discovery software suite should be supplied along with the system.</li> </ol>
21	Warranty	5 years onsite parts and labor warranty for system and monitor
22	Vendor Status	The hardware vendor should be a reputed concern, having global presence in multiple countries. Vendor should have ISO certifications.

## Desktop Specification

**Quantity - 9**

Sl. No.	Features	Qualifying Minimum Requirements
1	Processor	Intel Core i7 7700 7Gen 3.6 2400MHz Quad Core CPU
2	Chipset	Intel® Q270
3	Memory	32GB (2x16GB) DDR42400 NECC Unbuffered Memory
4	Memory Slots	4 DIMM
5	Internal Storage	1 X 512GB SSD, 2 X 2TB 7200RPM SATA-6G 3.5in
6	Optical Drive	9.5mm DVD-Writer
7	Graphics Card	NVIDIA GeForce GTX1070 8GB
8	Keyboard and Mouse	USB Slim Keyboard and USB mouse
9	Audio	Conexant CX20632 codec, 2 W internal speaker, universal audio jack, headset and headphone front ports (3.5 mm), multi-streaming capable
10	Expansion Slots	2 full-height PCIe x1; 2 full-height PCIe x16, one wired as x4; 1 M.2 2230 for optional wireless NIC; 1 M.2 2280 for storage drives 21
11	Security Management	Trusted Platform Module TPM 2.0 Embedded Security Chip (SLB9670 - Common Criteria EAL4+ Certified); SATA 0,1 port disablement (via BIOS); Drive lock; RAID configurations; Serial, USB enable/disable (via BIOS); Power-on password (via BIOS); Setup password (via BIOS); Solenoid hood lock/intrusion sensor; Support for chassis padlocks and cable lock devices
12	Ports and Connectors	Front: 1 audio out; 2 USB 2.0; 1 USB Type-C 2 USB 3.1 Gen 1; 1 headset connector 28, Back: 1 RJ-45; 2 USB 2.0; 1 audio in; 1 audio out; 4 USB 3.1 Gen 1; 1 choice of DisplayPort, HDMI, VGA or USB Type-C



		(optional); 2 DisplayPort 28 Back (optional): 1 DisplayPort 1.2; 1 HDMI; 1 serial; 1 USB Type-C; 1 VGA22
13	Communication	Intel 8265 ac 2x2 +Bluetooth 4.2 WW non-vPro
14	Network interface	Intel Ethernet I210-T1 PCIe x1 gigabit network interface card
15	Operating System	Windows 10 Pro 64bit or latest
16	Power Supply	500 W standard efficiency
17	Environmental	Low halogen
18	Energy Efficiency Compliance	ENERGY STAR certified and EPEAT Gold registered configurations available
19	Warranty	5/5/5 (material/labor/onsite) TWR Warranty SING
20	Testing	MIL-STD 810G testing
21	Display	23.8-inch Monitor with VGA, HDMI, DisplayPort Connectivity

<b>NAS Box 20TB Specifications</b>		
		<b>Quantity -1</b>
<b>Sr No</b>	<b>Description</b>	<b>Compliance</b>
	<b>Hardware Specifications</b>	
1	The Storage should have high performance CPU with minimum CPU speed of 2 Ghz Dual Core installed.	
2	Should be provided with minimum of 2GB memory installed	
3	Should have minimum 6 Bays	
4	Should support SSD or SATA drives	
5	The drives in the bays should be hot swappable.	
6	minimum 2 eSATA ports for expansion	
7	Minimum 36 TB RAW HDD should be provided	
8	Should be scalable to minimum 96TB	
9	Should have minimum two gigabit LAN ports and these ports should support link aggregation and failover.	
10	Should have HDMI port	
11	Minimum two USB 3.0 ports	
12	Minimum one USB 2.0 ports	
13	Should have Kensington Security Lock Feature	
	<b>Technical Specifications</b>	
	<b>Data Protection Features</b>	
14	Should be provided with unlimited block-based snapshots for continuous data protection.	
15	Should be able to restore Snapshots to any point in time.	
16	Should be able to restore Snapshot data from Cloud, native Windows File Explorer or locally through GUI of OS installed in NAS device.	
17	Should be able to schedule snapshots.	
18	Should have industry standard RSYNC for replication of data	
19	Encrypted remote replication	
20	Single Disk and JBOD	
21	Should support RAID levels of 0,1, 5,6 and 10	
22	Should support global hot spare on RAID	
23	Should support Apple Time Machine	

24	Should have Real-time Anti-Virus scanning facility using signature and heuristic algorithm in order to protect data from viruses, malware, worms, and Trojans.	
	<b>Virtualization features</b>	
25	Unlimited iSCSI LUN snapshot	
26	Thin or thick provision of LUNs	
27	Multi-LUN per target	
28	LUN Mapping and LUN Masking	
29	Should support VMWARE vSphere 5, Citrix xenserver 6, Windows server 2008 Hyper-V, Windows 2008 failover clustering and windows server 2012	
	<b>Following File System and Transfer Protocols Should Be Provided</b>	
30	Microsoft Network (CIFS/SMB3)	
31	Apple OS X (AFP 3.3)	
32	Linux/Unix (NFS v3)	
33	External File System: EXT3, EXT4, NTFS, FAT32, HFS+	
34	Copy-on-write file system	
35	Internet (HTTP)	
36	Secure Internet (HTTPS)	
37	File Transfer Protocol (FTP)	
38	FTP over SSL / TLS (explicit)	
39	FTP Passive mode with port range setup	
40	FTP Bandwidth control	
41	FTP Anonymous	
42	FTP Transfer Log	
43	Secure Shell (SSH)	
44	SSH File Transfer Protocol (SFTP)	
45	Web Authoring (WebDAV)	
46	Storage Array Network (iSCSI)	
47	File Synchronization (rsync)	
48	Local web file manager	
	<b>User / Group Management</b>	
49	Should be able to create users and groups within OS.	
50	The OS of NAS should be capable of setting permissions with Subfolder ACL support for CIFS/SMB, AFP, FTP protocols.	
51	Should be able to integrate with Active Directory Domain	
52	Domain user login via CIFS/SMB, AFP, FTP	
	<b>Management and Accounting</b>	
53	Should be able to Save and restore system configuration (clone devices)	
54	Local event log	
55	Should be able to send events to SYSLOG server	
56	Connection reporting (SMB)	
57	Local Graphical User Interface (GUI)	
58	Unicode support	
59	Volume Management	
60	Thin provision Shares and LUNs	
	<b>Networking Protocols</b>	
61	TCP/IP	
62	IPv4	

63	Next-generation Internet Protocol (IPv6)	
64	Static IP Address	
65	Dynamic IP Address	
66	Multiple IP Settings	
67	DHCP Client	
68	UPnP Discovery	
69	Bonjour Discovery	
70	Link Aggregation IEEE 802.3ad	
71	Port Trunking (balanced round robin, active backup, balance xor, broadcast, 802.3ad link aggregation LACP, transmit load balancing, adaptive load balancing)	
72	Jumbo Frames	
73	Virtual LAN (VLAN)	
74	SSH	
75	SNMP v2, v3	
76	Network Time Protocol (NTP)	
	<b>Media Support</b>	
77	UPnP DLNA Media Server	
78	Video Streaming to any DLNA compliant device including PS3/Xbox 360	
79	DLNA mobile clients for remote media streaming (iOS, Android)	
80	DLNA supported music formats (wav, wma, pcm, ogg, mp3, m4a, flac, aac)	
81	DLNA supported photo formats (jpg, jpeg)	
82	DLNA supported video formats (3gp, mp4, wmv, xvid, vob, ts, tivo, mts, mpeg, mpg, mp4, mov, mkv, m4v, m4p, m2t, m2ts, flv,flc, fla, divx, avi, asf)	
83	DLNA supported playlist formats (pls, m3u)	
84	iTunes Server	
85	iTunes supported audio formats (mp3, m4a, m4p, wav, aif)	
86	iTunes supported video formats (m4v, mov, mp4)	
87	iTunes supported playlist formats (m3u, wpl)	
88	TiVo Archiving	
89	Plex Media Server streams to DLNA and Plex clients (mobile, desktop, Google TV,Roku, Samsung & LG TVs)	
90	5 yrs Warranty on Chassis	

## SCHEDULE "C" DELIVERY DESTINATIONS

Sl. No	Item	Qty	Unit	Delivery Destination/Consignee
1	High-End Workstation	No.	Two (02)	ORSAC, Bhubaneswar
2	Desktop Computer	No.	Nine (09)	
3	20 TB Storage	No.	One (01)	
	All materials mentioned above with 5 years warranty			

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 High-End Workstation, Desktop Computer and 20 TB Storage 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). I / we also agree that an amount of ten percent 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 and installation of High-End Workstation, Desktop Computer and 20 TB Storage with 5 years warranty (Continuation sheet may be used if required and each page to be signed)**

Item description (mention as per Tender Notice)	Unit price @	Details of tax components			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
1) High-End Workstation						
2) Desktop Computer						
3) 20 TB Storage						
All materials mentioned above with 5 years warranty						

@ 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: