



NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA – 769 008, ODISHA

Advertised Tender Enquiry

Department: COMPUTER CENTRE

Tender Notice No: - NITR/PW/CC/2019/93

Date: 13/02/2019

TENDER FOR “FACILITY MANAGEMENT SERVICE FOR SERVER MANAGEMENT” CONTRACT FOR NATIONAL INSTITUTE OF TECHNOLOGY, ROURKELA-769008.

Sealed Tenders are invited through “e-Procurement” module of CPP Portal (<https://eprocure.gov.in/eprocure/app>) from interested and eligible firms/ companies/ proprietors/ individuals for award of a Server, Storage, SAN, Cluster and Virtualization, HPC, BMS Management contract on the following terms and conditions.

1. List of ANNEXURE:

a.	List of Server Infrastructure List of Eligibility Criteria	ANNEXURE-1 ANNEXURE-1A
b.	Check list for preparation of Bid/Tender	ANNEXURE-2
c.	Instruction to Bidder and tender processing formality	ANNEXURE-3
d.	Letter of Undertaking and Format of particulars of tender	ANNEXURE-4 & ANNEXURE-4A
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2.1 Important Dates:

- Last date of submission of tender **06-03-2019 at 03:00 PM** through e-Procurement Process.
- Opening of Technical Bid of the tender on 07-03-2019 at 03:00 PM.
- Opening of price bid (BOQ) of the tender on **After evaluation of Technical Bid**
- EMD and Tender cost should reach to **Registrar, NIT Rourkela-769008** through Speed Post/ Registered Post/ Courier on or before date and time of opening of the technical bid i.e. **07.03.2019 at 03:00 PM**

2.2 Tender document is available in e-procurement module available in CPP portal (<https://eprocure.gov.in/eprocure/app>) or may be downloaded from the website of National Institute of Technology, Rourkela i.e. http://nitrkl.ac.in/oldwebsite/jobs_tenders/8maintenance/default.aspx.

3. Nature and Scope of Work:

- I. The contract involves “FACILITY MANAGEMENT SERVICE FOR SERVER, STORAGE, SAN, VIRTUALIZATION, HPC, BACKUP and BMS MANAGEMENT” of the institute in Tier-II+ Data Centre.
- II. The Administrator deployed by bidder must report to HOD, Computer Centre regarding day to day maintenance of server infrastructure, new implementation and necessary up gradation.
- III. The period of the contract will be **three years** from the date of issue of work order, unless extended otherwise. If found unsatisfactory at any moment, the contract will discontinue.
- IV. The contract price is inclusive of all taxes and duties excepting GST. Contractor is to bear all incidental cost/tax connected to the execution of the contract.
- V. The tender may be cancelled without assigning any reason and EMD shall be returned within one month of cancellation of the Tender.
- VI. Revocation/ withdrawal from tender at any stage before or after opening of price bid shall entail forfeiture of EMD.
- VII. Bringing in outside influence or entering in to unsolicited correspondence / communication will entail rejection of tender and a proceeding for blacklisting.

4. ELIGIBILITY:

- I. **Status:** The Bidder shall necessarily be a legally entity either in the form of a sole proprietorship, partnership or a Private Limited Company or Limited Company registered under the Companies Act. A proof on status the bidder shall be submitted. The bidder must have its head office or branch office in Bhubaneswar/Tata/Ranchi or Kolkata.
- II. **Financial Capacity: Bidder must be a profit-making entity for the last 3 years & the bidders should have the minimum annual turnover of Rupees Fifty (50) Crores during the last three (3) financial years (2015-2016, 2016-2017 and 2017-2018).** Relevant proof for supporting the above shall be submitted failing which the same shall be treated as void. The firms must be willing and/or capable to invest on minimum three month’s expenses before being reimbursed the claim. The Institute reserves the right to waive this requirement if convinced of the capability.
- III. **ISO Certification:** The bidder should have the valid ISO 9001:2015, ISO/IEC 27001:2013, ISO/IEC 20000-1:2011 or 20000-11:2015 certification in Management of Information Security for IT Infrastructure Services. Related documents must be produced
- IV. **Certification:** The bidder should have minimum 4 (Four) authorized partner for “Microsoft, RedHat, VMware, IBM/Lenovo and HPE”. The bidder must produce a Letter of partnership from the OEM. Any bid without the same would be rejected on the spot.
- V. Bidder should have the multi-location presence in India (Minimum 4 Cities).
- VI. Bidder should have the minimum 100 no’s of manpower of their own payroll across India in the current financial year. The PF Document of any month of the current financial year needs to be provided for establishing the fact.
- VII. The bidder must have established office/ support center in Eastern India.
- VIII. The bidder should be a profitable organization for last 03 years.
- IX. The bidder must have at least 4 years’ experience in providing Facility Management Service (FMS) for computer server infrastructure maintenance (Server, Storage, SAN, Cluster & virtualization) in large institutions/organizations. Should have operated computer server infrastructure management service in Academic Institution/ Public Sector Undertaking/ Government/Reputed Organization. Details of computer servers infrastructure equipment installed in NIT Rourkela is listed in **Annexure – 1**.

- X. The bidder must have ongoing FMS or AMC with resource deployment for server infrastructure maintenance in large academic institutions like IITs, NITs, IIMs, CFTIs, etc. or Public-Sector Undertakings like SAIL, BHEL, NTPC, etc. or Central Government Organizations (non-academic) or in Reputed Organization. The bidder should produce a satisfactory service certificate/Payment advice in this regard along with contact details of respective institutions/ organizations/ departments. A list regarding the same must be enclosed along with Contact Person & Phone, email IDs and duration of contract. To provide on-site Server Infrastructure support on a 24X7 basis and consistent management and monitoring of the Server infrastructure and Data Centre of NIT Rourkela, the bidder should deploy adequate number of qualified, certified and experienced Resident Engineers at NIT, Rourkela.
- XI. The bidder should have **minimum 5 (five) no of "MCSE/ RHCE/ VMware/HPE"** certified engineers on their payroll to provide support to the Institute as well as to the Resident Engineers. Minimum 5 no. of certificates must be produced.
- XII. Bidder must have at least 4 years' experience in providing FMS for computer server administration (server, storage, VMware, Cluster etc.) in like IITs, NITs, IIMs or in reputed institutions/ organizations. (attach PO copies/ work completion certificate)

Note: Kindly attach proofs/ supporting documents for the above information failing which the technical bid will be rejected. (Annexure – 1A)

5. Terms & conditions

- a) In order to attract quality manpower and motivate them to do better work, the bidder should spend at least 75% of the bill amount in the form of salary paid to the Resident Engineers posted at NIT, Rourkela. The bidder should produce Bank Statements and Salary Slips to N.I.T. Rourkela as a proof in this regard whenever it is asked for. In case of default or specific complaint received from any Resident Engineer engaged under this contract, N.I.T. Rourkela shall have the authority to get the payment disbursed through its designated officer at your cost. If it is found that the total salary disbursed to the employees (Resident Engineers) posted at NIT Rourkela by the bidder is less than 75% of the order value, the differential amount shall be recovered from monthly bill of the bidder and contract shall be terminated with immediate effect without any compensation.
- b) The bidder must provide EPF and ESIC or Insurance facility (as per the rules of Govt. of India) to the Resident Engineers engaged under this contract. The bidder should produce proper documents (payment challans, ECR statements, etc.) to N.I.T. Rourkela in this regard whenever it is asked for. If any irregularity found or specific complaint received from any of the Resident Engineers engaged under this contract in this regard, the amount shall be recovered from monthly bill of the bidder and contract shall be terminated with immediate effect without any compensation.
- c) The bidder must arrange training to the deputed engineers at their own cost for upgradation of technical knowledge whenever required so that they can be capable to handle the challenge due to new Sever Infrastructure equipment and software setup at Computer Centre and in the Data Centre of NIT, Rourkela so that services of the institute should not be affected.
- d) **Registration:** The Bidder should be registered with Income Tax, GST and Employees Provident Fund Organization, Employees State Insurance Corporation (as applicable). Relevant proof in support shall be submitted.
- e) The tenders submitted in digital mode through the e-Procurement portal shall be subject to information and technology Act.

REGISTRAR

Sl. No.	Description	Documents to be Submitted	Page no. of supporting documents
1	The bidder should be a Registered Company in India under the Companies Act, 1956	Certificate of Incorporation along with PAN, GST Certificate and ITR copy.	
2	The bidder should be a Profit-making Entity and Minimum Annual Turnover of Rupees Fifty (50) Crores During the Last Three (3) Financial Year (2015-2016, 2016-2017, 2017-2018), (not inclusive of the turnover of associate companies) as per the audited accounts.	Copy of audited balance sheet and profit loss statement for last three Financial Years.	
3	The Bidder should have a valid ISO 9001:2015, ISO/IEC 27001:2013, ISO/IEC 20000-1:2011 or 20000-11:2015 Certificate	Valid Certificates to be submitted	
4	The bidder should have minimum 4 (Four) authorized partner for "Microsoft, RedHat, VMware, IBM/Lenovo, HPE".	produce a Letter of authorized partners from the OEM	
5	Bidder should have the multi-location presence in India (Minimum 4 Cities).	Proof of Address & Office Telephone Bill	
6	Bidder should have the minimum 100 no's of manpower of their own payroll across India in the current financial year.	The PF Document of any month of the current financial year	
7	The bidder must have established office/ support center in Eastern India.	Proof of Address & Office Telephone Bill	
8	The bidder should be a profitable organization for last 03 years.	Copy of audited balance sheet and profit loss statement for last three Financial Years.	
9	The bidder must have at least 4 years' experience in providing Facility Management Service (FMS) for computer server infrastructure maintenance (Server, Storage, SAN, Cluster & virtualization) in large institutions/organizations.	PO / work completion certificate	
10	The bidder must have ongoing FMS or AMC with resource deployment for server infrastructure maintenance in large academic institutions like IITs, NITs, IIMs, CFTIs, etc. or Public-Sector Undertakings like SAIL, BHEL, NTPC, etc. or Central Government Organizations (non-academic) or in Reputed Organization.	Satisfactory service certificate/Payment advice and Contact Person & Phone, email IDs and duration of contract.	
11	The bidder should have minimum 5 (five) no of "MCSE/ RHCE/ VMware / HPE" certified engineers on their payroll to provide support to the Institute as well as to the Resident Engineers.	Minimum 5 no. of certificates must be submitted. .	
12	Bidder must have at least 4 years' experience in providing FMS for computer server administration (server, storage, VMware, Cluster etc.) in like IITs, NITs, IIMs or in reputed institutions/ organizations.	PO / work completion certificate	

1. List of Hardware:

Sl. No.	BRAND DESC	Make & Model	Quantity installed
1	IBM Blade Center H	BladeCenter-H HS22 (MT 8852)	01
	Management Module	IBM	02
	Server Connection Module	IBM	04
	Fibre channel SM (port-6)	Qlgc	02
	10G Ethernet SM	BNT	02
	IBM Blade Server	MT7870	10
2	HP Blade System	HP C7000	01
	HP onboard Administrator	BladeSystem c7000 DDR2 Onboard Administrator with KVM	02
	HP Virtual Connect	HP VC FlexFabric 10Gb/24-port	02
	HP Blade Server	ProLiant BL460c Gen8	12
3	HP high efficiency Chassis	S6500 4U	04
4	HP Server	DL360p Gen8	05
5	HP Server	SL230s Gen8	32
6	HP Server	SL250p Gen8 + GPU NVidia Tesla M2090 with 512 core	01
7	HP Apollo Chassis	HP Apollo r2600 Gen10	08
8	HP Server	ProLiant DL360 Gen10	07
9	HP Server	ProLiant XL170r Gen10	20
10	IBM RACK Server	IBM X Series 345	02
11	HP Rack Server	ProLiant DL320e Gen8	01
12	HP Rack Server	Storage Works X1800 G2 Network Storage	01
13	File Contrller	HP File Controller V2 E7X02A	02
14	HP Storage (500TB)	HP 3PAR 7400	01
15	HP Storage (100TB)	HP EVA-6500	01
16	Cisco SAN Switch (48 port)	CiscoMDS9148	02
17	Infiniband Switch	Mellanox SX6025	01
18	Infiniband Switch	Intel OPA MM#948679	01
19	Ethernet Switch	HP A5500-48G	01
20	Ethernet Switch	Aruba 2920-48G	01
21	Ethernet Switch	Extreme Summit X440-48t	01
22	Ethernet Switch	Extreme Summit X670-G2-48X	01
23	Ethernet Switch	Extreme Summit X460-G2-24T-10GE4	01
24	RACK	IBM	02
25	RACK	HP	03
26	PDU	HP PDU	11
		IBM PDU	5

2. List of Cooling System:

Sl. No.	BRAND DESC	Make & Model	Quantity installed
1	Precision Air Conditioner (7 Tons)	Sudhir Genset SGL-200 (In Data Centre)	03
2	Voltas split Air Conditioner	Voltas 243EX (In BMS & Power Room)	03

3. List of Power System:

Sl. No.	BRAND DESC	Make & Model	Quantity installed
1	Power Distribution Panel	(In Data Centre)	02
2	Main Power Distribution Panel	(In Power Room)	02
3	AMF Panel	Sudhir	02
4	80 KVA UPS	Riello MPT-80	02
5	Battery Bank	Each Bank have Exide 12V 120Ah (32) Battery	02
6	Diesel Generator (200 KVA)	Sudhir Genset SGL-200	02
7	Micro System 2 KVA UPS	Micro System UNF202A08	01

4. List of BMS Hardware:

Sl. No.	BRAND DESC	Make & Model	Quantity installed
1	VESDA	VESDA-VLF VLF-250-02	01
	Sampling Point For Room Void		02
	Sampling Point For Ceiling Void		01
	Sampling Point For Floor Void		02
	END CAP		02
	Hooter		01
	Power Supply Unit		01
2	PA System		01
	Ceiling Mounted Speaker		08
	Amplifier (60W)	Plena Mixer Amplifier (BOSCCH)	01
	Gooseneck MIKE	Microphone (BOSCCH)	01
3	Fire Suppression system	NOVEC 1230	01
	Nozzle At True Ceiling		01
	Nozzle At False Floor		01
	Nozzle At False Ceiling		01
	80 trsSEAMLESS CYLINDER	HFC227 EKCT-R840-0323	01
	Gas Release Panel		01

	Gas Manual Release S/W & Abort S/W		01
4	Fire Detections System		01
	Addressable Below False Ceiling Smoke Detector		09
	Manual Pull Station		08
	Control Module For Hooter		08
	Hooter		08
	Addressable True ceiling Smoke Detector		08
	Fire Alarm Panel		01
	Monitor Module		02
	Control Relay Module		03
5	CCTV System		01
	Monitor	DELL	01
	DVR	HIKVISION (16 CH) DS-7216HV1-S	01
	Dome Camera		04
	Power Supply Unit		01
6	Access Control System		01
	Biometric Card Reader		01
	Proximity Card Reader		04
	Push Button		07
	Electro Magnetic Lock For Single Door		03
	Electro Magnetic Lock For Double Door		02
	Magnetic Contact		07
	Controller		03
7	Rodent Controller		01
	Satellites For Rodent Repellent (Ceiling Void)		04
	Satellites For Rodent Repellent (Floor Void)		04
	Satellites For Rodent Repellent (Room Void)		04
8	Water Leak Detection		01
	Water Leak Detection Panel (2 zone)		01
	Buzzer For WDL Panel		01
	Water Leak Detection Cable		--

5. List of OS/Software/Application:

Sl. No.	OS/Software/Application	Description	Version
01	Microsoft Windows Server 2008, 2012 (64-Bit)	Microsoft Operating System	R2 Standard, R2 Enterprise
02	Microsoft Windows Server 2003, 2008 (32-Bit)	Microsoft Operating System	Enterprise
03	Ubuntu Linux (32-Bit)	Ubuntu Operating System	9.04
04	CentOS Linux (64-Bit)	CentOS Linux Operating System	6.x, 7.x
05	Redhat Fedora (32-bit)	Redhat Fedora Operating System	8
06	Redhat Enterprise Linux (32-Bit)	Redhat Enterprise Linux Server Operating System	5.x
07	Redhat Enterprise Linux (64-Bit)	Redhat Enterprise Linux Server Operating System	6.x, 7.x
08	SUSE Linux Enterprise (64-Bit)	SUSE Linux Enterprise Operating System	11
09	OpenSUSE (32-Bit)	Open SUSE Operating System	10.2
10	Checkpoint Gaia	Checkpoint Operating System	R77.30
11	Debian Linux	Debian Operating System	8
12	VMware ESXi	Bare metal Hypervisor Operating System	6.x
13	VMware vCenter	Centralized management application for ESXi hosts and virtual machines.	6.x
14	VEEAM	Backup and Replication software for VMs	8.x
15	VCOPs	Provides integrated, intelligent monitoring of the entire virtual environment.	5.7.0.0
16	Zimbra Collaboration Suite	Institute Mailing Solution consisting of email servers and web client.	8.x
17	Microsoft SQL Server	Relational Database Management System running on Windows OS.	2005, 2008
18	MySQL	Relational Database Management System running on Unix like OS (RHEL, CentOS, Ubuntu etc.)	5.x
19	MariaDB	Relational Database Management System running on Unix like OS (RHEL, CentOS, Ubuntu etc.)	5.x
20	Microsoft Visual Studio	Integrated Development Environment for application and web site development.	2008, 2012 Pro
21	Tally	ERP software for billing, accounting	9

22	IIS	Web Server application for website hosting	6, 7
23	Apache	Open source Web Server application for website	2.x
24	Redhat 389-Directory Server	Ldap server for centralized user identity and authentication.	9.x
25	Moodle	Open source e-learning management system	2.7
26	PHP	Software for application and web site development	5.x
27	LMTools	License Management Tool for managing various network based license for different software.	11.x
28	Sentinel License Manager	License Management Tool for managing various	8.x
29	CMG License Utility	License Management Tool for managing network based license for CMG software.	2015.10
30	CMGL	Reservoir simulation software	2099.99
31	SPSS	Interactive or batched statistical analysis software	20, 24
32	Ansys, Ansoft	Engineering simulation and 3D design software	15.0, 18.1
33	Matlab	A mathematical computing software.	R2012b, R2015b, R2017a
34	Solidworks	A solid modelling CAD/CAE software	2016
35	Aspen	Software suite for process optimization.	
36	CSi, ETABUL, SAPUL	Software suite for integrated analysis, design and drafting of building systems	2015
37	SYSTAT, EXACTTEST	Software for statistics and statistical graphics.	13, 1
38	Abaqus	software suite for finite element analysis and computer-aided engineering	61.8
39	Autodesk AutoCAD	A commercial computer aided design and drafting software	2008
40	MSC ADAMS	A multibody dynamic simulation software.	2014.0131
41	OriginLab	Software for interactive scientific graphing and data analysis.	2016 pro
42	Statistica	A statistical software	9
43	Plaxis	A software for analyzing deformation, stability and flow in geotechnical engineering.	2D v9 and 3D v2012
44	AMBER	Scientific Applications running on HPC	12
45	Ansoft		15.0, 18.1
46	Ansys		15.0, 18.1
47	Bowtie2		2
48	Climate_Model (RegCM)		4.5
49	GAMESS		
50	GAUSSIAN09		09
51	GCC		4.9.4
52	git-1.8		1.8
53	GLIB		2.14
56	GNUPLOT		4.6
57	GrADS		2.0.2
58	GROMACS		4.6.3

59	HDF5		1.8.14
60	HTSeq		0.6.1
61	JCUTE		
62	LAMMPS		3.x
63	MATLAB		R2012b, R2015b, R2017a
64	NAMD		2.x
65	NOVOCRAFT		3.x
66	OpenSees		1
67	Plumed		
68	PYTHON		3.4.3
69	Quantum		5.1
70	SIESTA		3.x
71	STAR		2.5.2b
72	WRF		3
73	Intel Cluster Studio	Software development product having C, C++, Fortran compilers by intel for running parallel programs on HPC	2013 and 2018u3
74	PGI Compiler	Software development product having C, C++, Fortran compilers by PGI for running parallel programs on GPU	12.10
75	Altair PBS	A Job scheduler for HPC.	12.x and 13.x
76	HP CMU	Cluster Management Utility by HP	7.0 and 8.2.4
78	Intel mpi	Message passing interface of intel	4.1.0, 2013 and 2018u3
79	Open mpi	A open source message passing interface	1.6.3
80	NVIDIA CUDA	A parallel computing architecture by NVIDIA.	8.x

6. List of Virtual Server:

Sl. No.	Virtual Server Name	Purpose	No. of VM
01	nitrvcenter	Managing the hosts and cluster.	01
02	APP-TEST1 and APP-TEST2	Testing of applications developed by automation cell.	02
03	APP-DB1 and APP-DB2	Database server for automation cell.	02
04	APP-DMZ and APP-LAN2	Applications developed by Automation cell	02
05	CCMN	CCMN site hosted on this server	01
06	WSP-MstrSrv1	Website Panel master server	01
07	drupal	Openscholar site hosted here.	01
08	dspace	Dspace site of library hosted here	01
09	ebooks	Odia ebooks (oab) hosted here	01
10	ethesis	Open Access Thesis repository of institute	01
11	Koel	Intranet server	01

12	MIS-NEW	Applications developed by Automation cell	01
13	nitwebsite	Institutes old website server	01
14	nitwebsite-new	Institutes Website (www.nitrkl.ac.in) Server	01
15	NS1 and NS2	DNS servers in DMZ	02
16	Mailhost1 and Mailhost2	Part of Zimbra Collaboration Suite (MTA servers)	02
17	Zmbox1 and Zmbox2	Part of Zimbra Collaboration Suite (user mail boxes)	02
18	zmproxy	Part of Zimbra Collaboration Suite (web client frontend)	01
19	Masterldap1 and Masterldap2	Redhat Directory Server (ldap) for centralized authentication.	02
20	vCenter Operations Management Suite	Provides integrated, intelligent monitoring of the entire virtual environment.	02
21	alumni	Institutes alumni's server	01
22	CACTI	Log server for monitoring resource utilization of servers	01
23	CHECKPOINT-BACKUP	Backup server of checkpoint logs.	01
24	CHECKPOINT-NEW	Checkpoint server for Institutes network firewall management	01
25	Comp_Reg	Application and database server for registering physical address (MAC ID) of computers connected to hostel network of institute.	01
26	DHCP	DHCP server providing IP addresses to institutes departments, academic area and hostel area.	03
27	DMS	A document management server of library	01
28	DNS-LAN	Local DNS server	01
29	EXTREME-NMS	Network Management software of extreme.	01
30	FTP_E_Learning	FTP server for publishing e-learning content.	01
31	FTP-FILESERVER	A FTP file server	01
32	GANGA-NEW	Institutes License server having various license management tools for softwares purchased by NITR.	01
33	godavari	BIS hallmark site hosted here.	01
34	Hall-Website-Srv	Server providing web space for hosting various hostel sites.	01
35	INFED	Server for Infflibnet access management federation.	01
36	KOHA-live	Open source integrated Library system for institutes Library.	01
37	LIB	Institutes purchased software repository.	01

38	libsys	Open source library automation system.	01
39	Mis	Applications developed by Automation cell	01
40	MONDAYMORNING	Server for publishing weekly newsletters of the institute by the students	01
41	moodle-new	Open source e-learning management system.	01
42	Nptel	National Programme on Technology Enhanced Learning site hosted here.	01
43	NTP	A Network Time Protocol server	01
44	Res-DB	Database server for competing endogenous RNAs	01
45	Tally-RDS	Institutes Tally server hosted server.	01
46	Techclub and Techclubwin-new	Various student clubs site hosted here and other sites as per requirement.	02
47	virtualhosting	Various student clubs site hosted here and other sites as per requirement.	01
48	vSphere Infrastructure Navigator	An application awareness plugin for vCenter server.	01
49	vSphere Management Assistant	For managing ESXi hosts and vCenter server using agents and scripts.	01
50	Windows Server 2008 KMS	Server hosting Key Management Service of Windows Server 2008	01
51	Wireless-mgmt	Server for wireless access point management.	01

7. List of Standalone Servers:

Sl. No.	Name	Purpose	No. of Servers
01	Terminal Server	Enables multiple client systems to connect to it and do programming in C, C++	02
02	RADIUS Server	It provides centralized Authentication , Authorization, and Accounting (AAA or Triple A) management for users who connect and use a network service.	01
03	Veeam	Backup solution for all VMs	01

8. List of Other Department Project HPC Installed in Data Center:

Sl. No.	HPC	DISCRIPTION	Quantity installed
1	03 Node HPC Physic Dept.	01 Master Node (HP SL230s Gen8), 02 Compute Node (HP SL230s Gen8)	03
2	13 Node HPC Chemistry Dept.	02 Master (Tyrone S-0117026A), 11 Compute Node (Tyrone S-0117026A), 02 Chassis (Super Micro Model-825-7), 02 Ethernet Switch (Dlink-DGS-1024C and DGS-1016D), 01 Rack (18 U), 01 TFT Monitor (19''), 01 KVM (Master View Max CS-1308)	13
3	05 Node HPC Physic Dept.	01 Master (Tyrone R-41015172), 04 Compute Node (Tyrone R-41015172), 02 Chassis (Super Micro Model-825-7), 01 Ethernet Switch (Dlink-DGS-1024D), 01 Rack (42 U), 01 TFT Monitor (19''), 01 InfiniBand Switch (SX-6005)	05

Note: Number of Computer Server Hardware, Computer Virtual Server, Computer Storage, Computer Network Devices, Software and Application, etc. may increase as per NIT Rourkela requirement.

CHECKLIST FOR BIDDER

Sl. No.	Particulars	Yes/No	Page No.
1.	Have you filled in and signed the details and enclosed relevant documents?		
2.	Have you read and understood various conditions of the contract and are willing to abide by them?		
3.	Have you submitted the DD for EMD of Rs. 1,50,000/-and Tender Cost of Rs 1,000/- with the Registrar NIT, Rourkela through Post / Courier ?		
4.	Have you taken prints of all the sections of the Tender in the prescribed paper size and signed on all pages of the Tender document and submitted in the e-Procurement module of CPP portal?		
5.	Have you attached proof of having met the eligibility criteria?		
6.	Have you attached self-attested copy of the documents to show the financial status of Bidder?		
7.	Registration with Government bodies like IT, GST, ESIC, EPF and Legal Entity – Have you attached a copy of each of the certificate?		
8.	Have you attached the self-attested Order Copies issued by the organization / Govt. Depts. if any?		
9.	Have you attached the proof of authorization to sign on behalf of the Bidder?		
10.	Has your Technical Bid been submitted as per the requirements of the Tender?		
11.	Is your BOQ / financial Bid submitted as per the prescribed MS Excel Format in the e-Procurement module of CPP portal?		
12.	Have you submitted the tender documents in two parts within the respective cover in the e-Procurement site of CPP portal.		

Signature of Bidder

NATIONAL INSTITUTE OF TECHNOLOGY, ROURKELA

INSTRUCTIONS TO BIDDERS

TENDER NOTICE No. NITR/PW/CC/2019/93

DATED: 13/02/2019

1. The Bidder shall submit the tender in two parts in the e-Procurement site (<https://eprocure.gov.in/eprocure/app>) of CPP portal consisting of **Part-I (Techno-commercial)** and **Part-II- Financial Bid** (i.e. BOQ) each in separate cover. The **EMD** should be valid 45 days beyond the bid validity period for **Rs 1,50,000/- (Rupees One lakhs Fifty Thousand only)** together with **Tender Cost of Rs 1,000/- (Rupees One Thousand only)** shall be deposited in the shape of Banker's Cheque/Demand Draft/ Pay order in favor of Director, NIT, Rourkela payable at Rourkela from any Scheduled Commercial Bank except Co-operative and Gramin bank and submit the same in a separate envelope with Registrar, NIT Rourkela in the hard form super scribing with the word "EMD and Tender Cost", Tender Notice No. & Bidder Name with Address.
2. Duly filled in tenders are to be submitted electronically in the e-Procurement module of CPP portal within the date & time mentioned in the Notice Inviting Tender clause no. 2.1 (page no.1). No tender is acceptable through any other mode.
3. The cover containing the DD for both EMD, Tender Cost shall be opened first at the time of opening of technical bid. The Part-I offer of those bidders, whose EMD and Tender Cost are found in order and submitted as prescribed at (1) above, will be opened immediately thereafter. Otherwise the offer will be considered as invalid and Part-I will not be opened.
4. The price discovery against this tender will be through e-Procurement.
5. The tender shall be valid for 90 days for acceptance from the date opening of the price bid withdrawal in between shall entail the forfeiture of Earnest Money.
6. Tenders not received in the prescribed forms as specified in the invitation to tender will be liable for rejection.
7. The Bidder(s) shall dully fill in the "**Form of Tender**" enclosed as **Annexure- 4A** in the tender documents and submit along with **Techno-Commercial Bid (Part-I)** of the tender. Non-submission of duly filled in & signed form of tender shall make the tender liable for rejection.
8. The invitation to Tender, Instructions to Bidders, Special Conditions of Contract & General Conditions of Contract, form of tender along with the rates quoted with the Letter of Acceptance and Contractor's Letter of acknowledgement shall form the contract. In case of any conflict between the terms mentioned in General Conditions of Contracts and Special Conditions of Contract, The Latter shall prevail.
9. The Bidders shall furnish the following documents as part of **Technical Bid, with an index page and serially numbered pages properly**:

- 9.1. Category of Bidder, whether Proprietary Firm, Registered Firm, Registered Partnership Firm, Private Limited Company, Limited Company, Public Limited Company, etc. along with following documents:
- i. In case of Proprietary Firm, attested copy of affidavit of Sole Proprietary.
 - ii. In case of Partnership Firm, attested copy of Partnership deed along with amendments if any and proof of registration if any.
 - iii. In case of Limited Companies, Memorandum & Articles of Association, Certificate Incorporation, Authorized, Subscribed and paid up capital.

If required, the original documents will have to be produced for verification.

- 9.2. Tender by a partnership firm shall be signed in the firm's name by one of the partners duly authorized by other partners. Tender by Joint Stock Company shall be signed in the name of the company, by a person duly authorized on its behalf. A power of attorney or other satisfactory proof showing that the person signing the tender document on behalf of the company is duly authorized to do so, shall accompany the tender. Tender submitted by the Bidder without furnishing the full particulars or submitting tender documents without strictly adhering to the directions given herein shall be rejected.
- 9.3. Information about officer of the firm/ Company being an employee, past or present or relationship of any employee of NIT, RKL with Proprietor, Partner Director of the firm is to be furnished.
- 9.4. Whether the Bidder or any of the Proprietor, Partner, Director, Shareholders or their spouse working as contractors in NIT or any Government Department/ Public Undertaking has been:
- a. Black listed.
 - b. Removed from the approved list of Contractors.
 - c. Demoted to lower class of job.
 - d. Under Orders for banning of suspending business with him/ them.

If yes, give the details indicating the period.

- 9.5. Banning of Business Dealings:
- a. If it is found during processing of the Tender, the Bidder or his representative has resorted to corrupt, fraudulent practices including misrepresentation of facts and/or fudging /forging/tampering of documents, the bid submitted by the Bidder shall be disqualified and a ban or any further business dealings shall be imposed for a specified period under the laid down procedure of NIT, Rourkela.
 - b. If it is found during the validity of the Contract that the Contractor/Bidder or his agent/representative or any other person claiming interest under him, indulges in any malpractice/activity prejudicial in the interest of the NIT or detrimental to the Plant/Unit, equipment and property, the said Contract may be terminated at once and a ban on any further business dealings shall be impose for a specified period under the laid down procedure of the Company.
- 9.6. Contractor's Background: Persons convicted for any criminal offence involving turpitude/economic offences (other than freedom struggle) would not be eligible for allotment of Contract and if such a person is allotted the Contract by suppression of information, it will be cancelled.
- 9.7 PF/RPFC Registration Code Number, if any:

- 9.8 Registrations with ESI, if applicable.
- 9.9 Copy of Balance Sheet, Profit & Loss Account and Income Tax Return (Duly attested by Notary) for **preceding five years** from the date of tender.
- 9.10 Details of the bank account indicating the name of bank branch & account number to which payment is to be made in the **Mandate Form**.
- 9.11 Copies of Permanent Account Numbers (PAN Card).
- 9.12 GST Registration Number.
- 9.13 The Bidder is advised to inspect all the institute facilities & satisfy himself before submitting his tender as to the nature of work. No complaints on these accounts shall be entertained after submission of the tender. The inspection of the site can be made **from 25/02/2019 to 28 /02/2019 between 03:00PM to 05:00 PM on prior appointment**.

10. **Financial Bid (BOQ):** Bidder should prepare financial Bid in the BOQ as provided in the Microsoft Excel format.

11. **BID OPENING PROCEDURES & FINANCIAL BID EVALUATION:**

- 11.1 The Technical Bids may be opened at NIT Rourkela, on the specified date & time by the Committee authorized by the competent authority of NIT Rourkela.
- 11.2 If the selected bidder does not provide services in the stipulated time, gets terminated or leaves the contract, the selection of next eligible bidder for the same work may be considered.

Financial Bid Evaluation Criteria: 1. Minimum Bid Value: Considering the volume and criticality of the work, bidder must quote justified rate so that quality of service and performance of the resources deployed should not be compromised. The minimum bid value should be Rs. 52, 00,000/- per year (excluding GST). Bidder should not quote below the minimum bid value. Any bid below the minimum bid value will be rejected.

12. **CLARIFICATION ON TECHNICAL BID EVALUATION:**

- 12.1 The technical bids shall be evaluated based on the available documents submitted by the bidder in the e-Procurement module of CPPP. To assist in the examination, evaluation, and comparison of the bids, and qualification of the bidders, the Institute may, at its discretion, ask any bidder for a clarification of its bid. Any clarification submitted by a bidder that is not in response to a request by the Institute shall not be considered. The Institute's request for clarification and the response shall be in writing through e-Procurement site.
- 12.2 If a bidder does not provide clarifications of its bid by the date and time set in the Institute's request for clarification, the bid may be rejected.
- 12.3 Institute also reserves right to seek confirmation/clarification from the issuer agency, on the supporting documents submitted by the bidder.

13. TECHNICAL BID EVALUATION:

The bidders who qualify in the technical evaluation may be intimated through the e-Procurement site. The evaluation shall be done as per procedure stated in **Annexure -9**.

14. FINANCIAL BID OPENING PROCEDURE:

The Financial Bids (BOQ) of all technically qualified Bidders may be opened on the scheduled date and time.

15. Tenders containing overwriting or erasing, without authentication with full signature in the pages(s) of "Schedule of Rates" (Financial Bid) and amount / quantity not shown in figures and words will be liable for rejection.
16. The rates quoted in the tender by the Bidder shall be in figure as well as in words. In case of discrepancy in the rate(s) amount between figure and words, the value written in words shall be taken as finally quoted rate(s) / amount.
17. Tenders(s) with rates in units different from those prescribed in "Schedule of Rates" will be liable for rejection. Tenders not received in the prescribed format specified herein shall be liable for rejection.
18. The rate in the tender shall cover all statutory duties/taxes/levies, as on date of tender, except GST.
19. Conditional tenders either in Part-I or Part-II of the tender shall be liable to be rejected. Bidder must go through all the terms and conditions provided in the set of tender document and submit bonafide offer.
20. Any request from the Bidder in respect of additions, alterations, modifications, corrections etc. of either terms and conditions or rates of his tenders after opening of the tenders, shall not be entertained under any circumstances. If the Bidder withdraws his tender after opening of the tender, but before the expiry of the validity period of the tender, the Earnest Money shall be forfeited.
21. The successful Bidder shall make his own arrangement for all materials and machines with tools & tackles required for carrying out the job as specified, if any, in the contract and consider the cost, labour cost & other charges to be incurred in proper execution of work within specified time.
22. By submitting a tender for the work, the Bidder will be deemed to have satisfied himself that the rates quoted by him in the tender will be adequate to complete such work according to the specifications and conditions attached hereto and he has taken into account all conditions and difficulties that may be encountered during its progress /execution. Any complaint in this regard after submission of offer shall not be entertained.
23. Canvassing in any form is strictly prohibited and tenders submitted by the tender who resort to canvassing, will be liable for rejection.
24. Authority of NIT Rourkela reserves the right to accept/reject any or all tenders without assigning any reason thereof.
25. Tender documents are not transferable.
26. Proprietary Firm, Registered Firm, Registered Partnership Firm, Private Limited Company, Limited Company, Public Limited Company, etc. formed after floating date of the tender are not eligible for participating in the tender.

27. It shall be the responsibility of the persons/firms submitting the tender to ensure that the tenders have been submitted in the formats and as per the terms and conditions prescribed in the NIT website and no change is made therein before submission of their tender. In the event of any doubt regarding the terms and conditions/formats, the person concerned may seek clarifications from the authorized officer NIT Rourkela. In case any tampering/ unauthorized alteration is noticed in the tender submitted from the tender document available on the website, the said tender shall be summarily rejected and the company shall have no liability whatsoever on the matter.
28. The Price bid will be open for the firm/ agency/ contractor qualify the technical bid.
29. **The bidder must qualify all the eligibility criteria.** If More than one bidder secured L1, then respective bidders would be called for a technical presentation at NIT Rourkela. Based on the presentation the discretion of selecting the successful bidder from these bidders would solely be decided by NIT Rourkela.
30. **For any clarification, please contact:**
- I. Prof. Chandan Kumar Biswas
HOD, Computer Center
NIT Rourkela-769008, Odisha
Phone: 0661-2462670/2671; 9438210277
Email: hod-cc@nitrkl.ac.in/ ckbiswas@nitrkl.ac.in
- OR
- II. Deputy Registrar (Purchase and Works)
NIT Rourkela, Rourkela-769008
Ph. No.: 0661-2462051/2082;
Email: purchase@nitrkl.ac.in /sonwanis@nitrkl.ac.in
31. The EMD submitted by the successful bidder shall be converted in to security deposit subjected to adjustment of total SD value i.e. ₹ 3,00,000/- and the same will be released after expiry of one month of completion of the contract subject to adjustment /deductions of NITR dues if any, provided the amount is sufficient to cover the Security Deposit.
32. Before submitting the tender, the Bidder should ensure that the details/ documents submitted as per the check list.

Date:

Place:

Signature of Bidder

(On Letter Head of Bidder)

Ref No: _____

Date: _____

LETTER OF UNDERTAKING AND DECLARATION

To

The Registrar

National Institute of Technology

Rourkela – 769008

Ref: Invitation for Tender No. _____ dated _____

We, the undersigned, declare that:

1. We have examined the tender document and its terms and conditions and we have understood the details.
2. We are ready to execute in conformity with the tender document the contract in case we are found successful as a Bidder.
3. Our bid shall be valid for a period of 90 days from the date of opening of price bid and we shall not revoke the same.
4. If our bid is accepted, we undertake to comply all other formalities as per tender document and work order.
5. We also declare that neither our firm/company/proprietorship concerned was blacklisted in past nor any of our office bearer was convicted in any court of law.
6. We accept all the terms and conditions of this Tender document and undertake to abide by them including the condition that you are not bound to accept highest ranked bid/lowest bid or any other bid you may receive.
7. The detailed particulars of the Bidder are mentioned attached separately.

Yours sincerely

Authorized signatory of the Bidder

(Authorized person shall attach a copy of the authorization for signing on behalf of the Bidding Company)

Full name and Designation

(ON LETTERHEAD OF THE FIRM)**TENDER FOR FMS FOR SERVER INFRASTRUCTURE MANAGEMENT AT NIT-ROURKELA****Detailed Particulars of the Bidder:**

Sl. No	Particulars	
1.	Name of Agency/ Firm/Proprietor	
2.	Full Postal Address	
3.	Email ID	
4.	Mobile No.	
5.	Other business of the firm	
6.	Office/Residence Ph.no	
7.	Office/Work Email ID	
8.	Fax no. (if any)	
9.	Name(s) of Proprietor / Partner / Director	
10.	PAN No.	
11.	E.P.F. Registration No.	
12.	GST Registration No.	
13.	Volume of business in the FY	
		2015-2016
		2016-2017
		2017-2018
14.	Volume of business in previous financial years with NIT-Rourkela (if any)	
		2015-2016
		2016-2017
		2017-2018
15.	Past experience in similar business (enclose relevant	
16.	Income Tax clearance certificate	
17.	Materials, machinery and methods proposed for	

Signature of Bidder

FORM FOR FINANCIAL CAPACITY

Description	Financial Years		
	2015-16	2016-17	2017-18
Annual Turnover			
Net Worth			
Current Asset			
Current Liabilities			
Total Revenue			
Profit before Tax			
Profit after tax			

FORMAT of BOQ (Bill of Quantity) /PRICE BID
[Should only be uploaded in the Price-Bid cover. Not to be enclosed with the Technical bid]

Validate Print **It** Help **BoQ**

Tender Inviting Authority: NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA- 769008

Name of Work: TENDER FOR "FACILITY MANAGEMENT SERVICE FOR SERVER MANAGEMENT" CONTRACT FOR NATIONAL INSTITUTE OF TECHNOLOGY, ROURKELA

Tender Notice No: NITR/PW/CC/2019/93 dated:- 13/02/2019

Name of the Bidder/ Bidding Firm / Company :				
PRICE SCHEDULE				
(DOMESTIC TENDERS - RATES ARE TO GIVEN IN RUPEES (INR) ONLY)				
(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)				
NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	BASIC RATE In Figures To be entered by the Bidder in (without GST but inclusive of all other charges/taxes per month) Rs. P	TOTAL AMOUNT Without GST in Rs. P	TOTAL AMOUNT In Words
1	2	3	4	5
1.01	Service charges for 1st year		0.00	INR Zero Only
1.02	Service charges for 2nd year		0.00	INR Zero Only
1.03	Service charges for 3rd year		0.00	INR Zero Only
Total in Figures			0.00	INR Zero Only
Quoted Rate in Words		INR Zero Only		

GENERAL CONDITIONS OF CONTRACT

A. DEFINITIONS

1. **Approved** means approved in writing, including subsequent written confirmation of previous verbal approval.
2. **Company** means National Institute of Technology Rourkela.
3. **Competent Authority** means Head of the Department and officer authorized in this regard.
4. **Contract** means the Invitation to Tender, Instructions to Bidders, General Conditions of Contract, Special Conditions of Contract, Scope of Work showing approximate quantities, tender submitted by the Bidder including his price offer, Performance Guarantee Bond and other bonds, Letter of Acceptance, Work Order and any communication having the effect of amendment of the contract, and the contract agreement, unless otherwise specified.
5. **Contract Rate/Price** means the sum named in the tender that has been accepted subject to such additions thereto or deductions there from as may be made in course of the tender evaluation or thereafter.
6. **Contractor** means “the Bidder” whose tender has been accepted and includes the Contractor’s authorized representative, successors, permitted assignees, legal heirs.
7. **Director** means and includes Director of NIT-Rourkela or his authorized representative.
8. **Duration of contract** means the period stipulated in the contract or work order and includes any extended period thereof, if any made through by a written communication.
9. **NIT** means National Institute of Technology, Rourkela represented through authorized officer for this contract or Director as the case may be.
10. **Engineer** means officer authorized to perform certain duty under this contract.
11. **Authorized officer/Representative** means and includes Asst. Registrar, Deputy Registrar, Registrar, Dean, and Warden, HOD of NIT authorized or designated for this contract.
12. **Equipment** means all tools, instruments, appliances or things of whatsoever nature required in course of the execution of the contract.
13. **Notice in writing** or written notice including notice in digital mode means a notice in written, typed or printed characters sent or emailed (unless delivered personally or otherwise proved to have been received) by registered post / courier (with POD) to the notified address or the Registered office of the addressee, or the contractor’s site office and shall be deemed to be sufficient service if so sent or left at that address.
14. **Terms and Conditions** means the special condition of the contract and the General conditions of the contract herein mentioned and other stipulations incorporated in any part of the tender document and / or agreement.
15. **Tender** means offer against enquiry / advertisement / Notice Inviting Tender submitted by the Bidder in single part or in multiple part like Techno-commercial part, price bid part.
16. **Bidder** means and includes the person or firm or company who have submitted valid tender and also includes its authorized representatives, heirs, executors, administrators, successors and assignees as approved by the employer.
17. **Work** means all work given in the Scope of Work in the tender documents and includes any associated work required for fulfillment of the Scope of Work and as set forth and required by the specifications and also such additional instructions issued from time to time during the progress of the work.

18. **Words** importing the singular only shall include the plural and vice versa. Where the context requires words importing person shall include firms and companies and vice versa.
19. **Cartel:** If it is found that the tender price is rigged by cartel formation, the tender process/tender of the cartel group shall be cancelled. (Cartel means quoting price in connivance so as to influence the bid)

B. RESPONSIBILITIES OF NIT OFFICIALS

20. The duty of NIT's representative is to oversee the work. He / She shall have full authority to relieve the contractor of any of his duties or obligations under the contract except as expressly provided hereunder or elsewhere under the contract or to order any work involving any delay or extra payment by NIT not to make any variations in the works.

C. ASSIGNMENT AND SUB-CONTRACTING

21. The contractor shall not assign the contract, or any part thereof, or any benefit or interest therein without prior written consent of NIT.
22. The contractor shall not sub-contract the works without written consent of NIT and such consent if given shall not absolve the Contractor from responsibility, liability or obligation under the contract and he shall be responsible for the acts defaults or neglects of any sub-contractor, his agents, employees, or workman as fully as if they were the acts defaults, neglects of the contractor, his agent, employees or workman.

D. CONTRACT DOCUMENTS

23. **Documents mutually explanatory:** The several documents forming the contract are to be taken as mutually obligatory of one another, and interpreted harmoniously, and in case of ambiguities or discrepancies, the same shall be clarified by NIT who shall thereupon issue to the contractor instructions / directions indicating the manner in which the work is to be carried out.
24. **Further instructions:** The representative of NIT shall have full power and authority as delegated to him to issue to the contractor, from time to time during the progress of the work, such further instructions as shall be necessary for the purpose of proper and adequate execution of the work and the Contractor(s) shall carry out and be bound by such further instructions.

E. GENERAL OBLIGATIONS OF THE CONTRACTOR

- a) **Sufficiency of tender:** The contractor shall be deemed to have satisfied himself before submitting tender as to the correctness and sufficiency of his tender for the works and of the rates stated in the tender schedule which shall cover all his obligations under the contract and all matters things necessary for the proper completion and maintenance of the work.
- b) **Bankruptcy and breach:** A contract if the contractor shall become bankrupt or have an order for appointment of any receiver made against him or shall present any position bankruptcy or shall make an arrangement with / or assignment in favor of his creditors or shall agree to carry out the contract under committee of inspection of his creditors or being a corporation shall go into liquidation (other than voluntary liquidation, for the purpose of amalgamation , absorption or reconstruction) or if the contractor shall assign the contract without the prior consent of NIT Rourkela or it is found that the contractor
 - I. has abandoned the contract or
 - II. Without reasonable excuse has failed to commence the work or has suspended the progress of the works for 7 days after receiving written notice to proceed or,
 - III. is not executing the works in accordance with the contract or is persistently or flagrantly neglecting to carry out his obligations under the contract or,

- IV. has to the detriment of good workmanship or in defiance of NIT instructions to the contrary sublet any part of the contract or,
- V. otherwise failed to perform his part of the contract according to the true intent and meaning thereof.

Then NIT may after giving 7 days' notice in writing to Contractor, enter upon the site and expel the Contractor therefrom, without thereby avoiding the Contractor or releasing the Contractor from any of his obligations or liabilities under the contract or affecting the rights and powers conferred on NIT or otherwise available under the law, may appoint any other Contractor to complete the work at the cost and risk of the Contractor. However, on happening of any eventualities as per above sub clause (I) to (V) the NIT shall be at discretion to terminate the contract by giving 7 days' notice and the contract shall stand/ terminated w.e.f the 8th day from the date of issue of notice. In any of the eventualities mentioned above in a) to e), NIT shall have the right to take possession of the plants and machineries of the contractor and realise the dues by date of the said plants and machineries.

- c) **Illegal gratification, breach of contract:** The contract may also terminated and the Contractor shall be liable to make good any loss or damage resulting from such cancellation (specified under clause D of Annexure-8) , if any bribe gratuity , gift , loan reward or advantage pecuniary or otherwise shall either directly or indirectly be given, promised or offered by the contractor or any of his servants or agents to any person employed by NIT in any way directly or indirectly interested in the contract or if the Contractor has committed a breach of any of the terms of the contract.
- d) **Final Certificate:** The contract shall not be considered as completed until a Final Certificate have been signed and issued to the contractor stating that the works have been completed in accordance with the terms of the contract & contractor shall submit a no dues certificate evidencing closure of contract.
- e) **Notice:**
 - i. **Service of notice on contractor:** Any notice given to the Contractor under the terms of the contract shall be served by the Engineer or his representative by registered post / courier to , or leaving the same, at the contractor's notified address or as its Registered office or at the Contractor's site office.
 - ii. **Service of notice on NIT:** Any Notice to be given to NIT under the terms of contract shall be served by sending the same by Registered Post / courier at the office of Registrar, NIT Rourkela, Rourkela-769008.
 - iii. **Change of address:** Any change of address of the contractor shall immediately be notified to the Engineer.
- f) **Safety:**
 - i. The contractor will be responsible to ensure safety of the workmen under them.
 - ii. Except in special circumstances (to be recorded in writing and with due approval) the contractor will not be allowed to employ subcontractor / petty contractors.
 - iii. If required contractors will employ a supervisor with specifically assigned duties for ensuring safe working and will inform in writing.
 - iv. For violation of safety norms, penalty may be imposed on the contractor. The penalty shall be decided after investigation and obtaining the report from the committee constituted for the purpose.

- g) **Policing of the work**: Should the general conduct of the works including the Premises of NIT under occupation of the Contractor lead to violation of any of the provisions of the Indian penal code either in consequence of riotous or illegal proceedings of the contractor's labor or supervising staff or others to such an extent as to necessitate the deployment of Special Police or Magistrate the cost of such extra forces is to be defrayed by the Contractor and not by the employer.
- h) **Law in Force in Relation to Contract**: The contract or amendments thereof entered into between the Employer and the contractor under the contract shall be governed and regulated by the relevant laws for the time being in force in the territory of India relating to contracts.
- i) **Legal compliance**: the contractor shall comply with all statutes, rules, regulations, by law, orders of statutory authority including but not limited to compliance of:
- a) Payment of wages Act. (Linked to Govt. of India)
 - b) Minimum wages Act. (Linked to Govt. of India)
 - c) Maternity benefit Act. (Linked to Govt. of India)
 - d) EPF Act. (Linked to Govt. of India)
 - e) ESI Act. (Linked to Govt. of India)
 - f) Contract labour (R&A) ACT & such other laws if applicable to execution of the contract in question as employer of this staff engaged / deployed in execution.
- j) The contractor shall not allow any visitor on the work sites, without the prior permission of NIT.
- k) If a Bidder quotes unworkable rates and is considered for placement of order, the party will be asked to justify the rate quoted and will have to give a performance Guarantee Bond (in addition to the Performance Security) in the form of bank guarantee. The amount of performance guarantee bond will be decided by NIT at the time of placement of order. Earnest money of the Bidders who refuse to give performance guarantee bond will be forfeited and they will not be considered in re-tendering if order /contract is not finalized from the present tender.
- l) **ARBITRATION**:
- a) **Reference of Disputes to Conciliation /Arbitration**: All disputes or differences arising out of the contract, except disputes or differences for which separate provisions for their resolution have been made in the contract ('excepted matters'), shall be settled by Conciliation or Arbitration in accordance with the Arbitration and Conciliation act, 1996, and the provisions made hereinafter in this article. Such dispute shall first be referred to Conciliation but a Conciliator selected mutually by the parties, who shall also decide the fees / remuneration and the rules of procedure, which shall be flexible.
 - b) **Appointment of Arbitrator**: In the event of failure of conciliation, that dispute will be referred to an arbitral tribunal comprising a sole arbitrator to be appointed by the Director, NIT Rourkela.

When a party sends a notice for arbitration to the said authority, within a period of thirty days, a panel of three names suggested by the said authority, will be forwarded to the party demanding arbitration. The party shall choose one of those persons, who will be appointed as the Sole Arbitrator.

In the event the party fails to intimate one of those persons within fifteen days from the date of intimation of the three names then said authority will be at liberty to appoint any one out of the said three persons as the sole arbitrator.

The Arbitrator(s) shall hear the cases independently and impartially and shall not represent the interest of any party. The Arbitrator shall, from the time of his appointment and throughout the arbitral proceedings and without delay, disclose to the parties in writing any circumstances likely to give rise to justifiable doubts as to his independence or impartiality. However, merely because he is or has been an employed by one of the parties, it shall not be a disqualification for a person to be an arbitrator.

- c) The arbitral tribunal shall free to determine its own rules of procedure, which it shall state at the beginning of the arbitral proceedings, and shall follow such procedure thereafter.

Arbitrators(s) may, in consultation with the parties, also determine the manner of taking evidence, the summoning of expert evidence, and all such matters for the expeditious disposal of the arbitration proceedings. The arbitrator shall be entitled to fees as may be agreed by the parties and also the expenses as per actual. The seat of the arterial tribunal shall be at Rourkela, but if necessary, the tribunal can hold the proceedings at other places, for convenience in recording evidence.

- d) **Work to continue during Conciliation / Arbitration:** Work under the contract shall be continued by the Contractor during the arbitration proceedings and recourse to arbitration shall not be a bar continuance for the work.

- l) **AMENDMENT:** Except to the extent expressly set forth in the Contract, no change in modification, in any form whatsoever, shall be valid or enforceable unless it is in writing on stamp paper of requisite value and signed by the party to be charged therewith or it's duly, authorized representative.

- m) **JURISDICTION:** The competent court at Rourkela shall have the exclusive jurisdiction upon any matter arising out of this contract.

SPECIAL CONDITIONS OF CONTRACT

A. Scope of Work:

Computer Server Infrastructure and Tier-II+ Data Centre support tasks are vital for maintaining the IT infrastructure at the Institute. They are supposed to provide Facility Management Service for campus wide and worldwide Computer Server Services Management with 24x7 user support in order to ensure 24x7 availability of the Computer Server resources uninterrupted operation, efficient and effective utilization of IT resources.

Computer Server Administration (The scope of work under this head includes the following)

- Management and maintenance of the Blade Center
- Management and maintenance of the network Storage.
- SAN Switch Configuration, Management and maintenance.
- NetworkSwitch Configuration, Management and maintenance.
- Flex Fabric Switch Configuration, management and maintenance.
- Monitoring and regular checking of hardware (chassis, server, storage, network devices)
- Installing/ patching/ upgrading/ tuning Windows and Linux operating system and applications/ software.
- Management and maintenance of the VMware virtualization infrastructure.
- Management and maintenance of the Zimbra mail solution.
- Management and maintenance of the Authentication (RDS) Sever
- Management and maintenance of the Backup Solution (Veeam) infrastructure.
- Management and maintenance of the Terminal Server.
- Management and maintenance of the Website virtual hosting server.
- Management and maintenance of the DNS server.
- Management and maintenance of the DHCP server.
- Management and maintenance of the database server.
- Management and maintenance of the file server
- Management and maintenance of the Radius (wireless authentication) server
- Management and maintenance of the Tally server.
- Management and maintenance of the moodle server.
- Managing the licensing server to manage licenses of application.
- Migration from standalone server infrastructure to virtual infrastructure.
- Management and maintenance of the high performance computing.
- Application Management
- Server load and performance monitoring and management
- Monitoring of database parameters
- Managing system alerts, dumps and messages
- Managing security
- Configuration activities
- User role and profile management
- Job management
- Policy management
- The system administrators will be responsible for 24x7 operation of the infrastructure. At least one of the administrators should be present in computer centre during 8AM to 8PM.
- They will work in the computer centre under the supervision of Head, Computer Centre.

Support Services (The scope of work under this head includes the following)

- Providing **24x7** manning of the Computer Centre (Data Centre).
- Attend the phone call.
- Distribute user credential to faculty, staff and student.
- Regular checking of all Websites of NIT Rourkela hourly basis.
- Regular checking of domain and mail exchange blacklisting.
- Regular checking of mail exchange reverse dns lookup.
- Regular checking of servers resource utilization through monitoring (cacti) server.
- Regular checking of terminal server connectivity.
- Regular checking of ISP hourly basis.
- Regular checking of ups for desired operation of Data Centre.
- Regular checking of diesel generator for desired operation of Data Centre.
- Regular checking of fuel status for desired operation of Data Centre.
- Regular checking of electrical panel and record the voltage/ current status for desired operation of Data Centre.
- Regular checking of precision air condition and maintaining cooling (21 degree Celsius) for desired operation of Data Centre.
- Regular checking of fire suspension status for desired operation of Data Centre.
- Regular checking of water leakage status for desired operation of Data Centre.
- Regular checking of smoke detection status for desired operation of Data Centre.
- Regular checking of rodent status for desired operation of Data Centre.
- Monitoring internet services and inform to network administrator in case of service failure.
- Call logging to companies in case of hardware/ software/ service failure.
- Install operating system, software on PCs in the Data Centre as and when required.
- Provide online assistance to users for (outlook configure, error finding in windows and Linux system, configuration of Zimbra desktop, radius configuration) in case of need.

Recommended Personnel Requirement for providing services:

In order to provide the above mentioned services the bidder should depute personnel at the institute. The recommended personnel requirement and their qualification for sustaining these activities is at least 3 system administrators for server system administration at least 4 support service personnel for round the clock service management. Out of the three server system administrators one will be senior server administrator and other two will be assistant administrator. This there should be total of at-least 7 personnel posted by the service provider in order to provide efficient services. The numbers mentioned are as per our estimate. Bidder are permitted to quote considering higher manpower requirement if they feel necessary as per the scope of work/ service.

1. Senior system Administration (One Persons):

i. Qualification:

- B. Tech/ B.E/ MCA with minimum 10 years of experience in server administration.

ii. Certification:

- He/ she should possess certification for Linux, VMware for managing the total infrastructure with good skills in server administration of Data Centre.

iii. Experience:

- Must have experience of managing server infrastructure (preferably in academic institutions like IIT, NIT, IIMs etc.) consisting of server infrastructure like Blade centre chassis, Blade server, High performance computer, enterprise storage, SAN, Windows, Linux, VMware, Database, Mailing solution, Authentication server, Backup solution, Data centre management solution, etc.

- Must have in depth knowledge and working experience in installation, configuration & troubleshooting of the Blade centre chassis, Blade server, High performance computer, Scientific application (Ansys, Matlab, Gaussian, namd, lammmps, etc.), enterprise storage, SAN, Windows, Linux, VMware, Database, Mailing solution, Authentication server, Backup solution, etc.
- Must have in depth knowledge of flex fabric (HPE virtual connect). Must be able to create and manage Trunk, VLAN, FC.
- Must have knowledge “patching/ updating/ upgrading” of operating system, software and application.
- Must have knowledge “virtualization infrastructure” (VMware) to create, manage, configure, resource distribution, policy and security of virtual machine.
- Must have sound knowledge of virtual distribution network, VLAN, networking protocols, etc.
- Must have sound knowledge of server security. Must be able to create and implement appropriate “firewall” to provide security to server.
- Must have knowledge of using “Hpe CMU” (HPC cluster management system) in order to manage the cluster.
- Must have knowledge of using “Altair analytic” (HPC analysis system) in order to monitor and check the status of the HPC resource utilization and resolve the user issues at various departments accordingly.
- Must have knowledge of using “Altair Compute manager” (HPC Management system) in order to manage user and job.
- Must have knowledge of using “Redhat directory server” (user Management, policy management system) in order to manage user.
- Must have knowledge of using “Veeam” (VMware backup system) in order to manage backup of all virtual machine.
- Must have knowledge of zimbra mailing solution. Must be able to create and implement appropriate Filter, polices.
- Must have knowledge of DNS server. Must be able to create and implement appropriate forward and reverse zone, spf, dmarc, dkim.
- Must have knowledge of moodle server. Must be able to create and implement course, enrolment user and resolve the user issues at various departments.
- Must have knowledge of database server. Must be able to installing and configuring the database server and clients according requirement, performance fine tuning and smooth functioning.
- Must have knowledge of Storage area network (SAN). Must be able to installing, configuring, zoning, monitoring and fine tuning.
- Must have knowledge of enterprise storage (HPE 3par). Must be able to create host, host group, disk pool, volume, lun mapping.
- Must have in depth knowledge of web server (apache, IIS, nginx). Must be able to install, configure and fine tune of web servers.

2. Assistant system Administrator (Two person):

i. Qualification:

- B. Tech/ B.E/ MCA with minimum 10 years of experience in server administration.They can also be Diploma in Computers/ Electronics/ IT with minimum 12 years of experience in server administration.

ii. Certification:

- He/ she should possess certification for Windows, Linux for managing the total infrastructure with good skills in server administration of Data Centre.

iii. Experience:

- Must have experience of managing server infrastructure (preferably in academic institutions like IIT, NIT, IIMs, etc.) consisting of server infrastructure like Blade centre chassis, Blade server, High performance computer, enterprise storage, SAN, Windows, Linux, VMware, Database, Mailing solution, Authentication server, Backup solution, Data centre management solution, etc.
- Must have in depth knowledge and working experience in installation, configuration & troubleshooting of the Blade centre chassis, Blade server, High performance computer, Scientific application (Ansys, Matlab, Gaussian, namd, lammmps, etc.), enterprise storage, SAN, Windows, Linux, VMware, Database, Mailing solution, Authentication server, Backup solution, etc.

- Must have in depth knowledge of flex fabric (HPE virtual connect). Must be able to create and manage Trunk, VLAN, FC.
- Must have knowledge “patching/ updating/ upgrading” of operating system, software and application.
- Must have knowledge “virtualization infrastructure” (VMware) to create, manage, configure, resource distribution, policy and security of virtual machine.
- Must have sound knowledge of virtual distribution network, VLAN, networking protocols, etc.
- Must have sound knowledge of server security. Must be able to create and implement appropriate “firewall” to provide security to server.
- Must have knowledge of using “Hpe CMU” (HPC cluster management system) in order to manage the cluster.
- Must have knowledge of using “Altair analytic” (HPC analysis system) in order to monitor and check the status of the HPC resource utilization and resolve the user issues at various departments accordingly.
- Must have knowledge of using “Altair Compute manager” (HPC Management system) in order to manage user and job.
- Must have knowledge of using “Redhat directory server” (user Management, policy management system) in order to manage user.
- Must have knowledge of using “Veeam” (VMware backup system) in order to manage backup of all virtual machine.
- Must have knowledge of zimbra mailing solution. Must be able to create and implement appropriate Filter, polices.
- Must have knowledge of DNS server. Must be able to create and implement appropriate forward and reverse zone, spf, dmarc, dkim.
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- Must have knowledge of database server. Must be able to installing and configuring the database server and clients according requirement, performance fine tuning and smooth functioning.
- Must have knowledge of Storage area network (SAN). Must be able to installing, configuring, zoning, monitoring and fine tuning.
- Must have knowledge of enterprise storage (HPE 3par). Must be able to create host, host group, disk pool, volume, lun mapping.
- Must have in depth knowledge of web server (apache, IIS, nginx). Must be able to install, configure and fine tune of web servers.

3. System Support staff (Four Person):

i. Qualification:

- The support staff should have diploma in Engineering with minimum 5 years of experience OR graduation with minimum 8 years of experience.

ii. Experience:

- Must have sound knowledge of Windows and Linux operating system. Must be able to install, configure.
- Must have knowledge of outlook, windows, Linux, Zimbra desktop, radius client install, configure and error finding.
- Must have knowledge of monitoring of domain status, MX blacklisting, reverse dns lookup, user call handling.
- Must have knowledge of cacti monitoring server to monitor all servers.
- Must have knowledge of Cyberoam monitoring tool to monitor ISP status.
- Must have knowledge of terminal server to check connectivity of user system with terminal server.
- Must have knowledge of BMS system. Must be able to know status of fire suspension, water leakage, smoke detector and rodent.
- Must have knowledge of monitoring of UPS.
- Must have knowledge of monitoring of precision air condition.
- Must have knowledge of monitoring (voltage and current status) of electric panel.
- Must have knowledge of vendor management.

B. OTHER TERMS & CONDITIONS:

1. The bidder should spend at least 75% of the bill amount in the form of salary paid to the Resident Engineers posted at NIT, Rourkela. The bidder should produce Bank Statements and Salary Slips to N.I.T. Rourkela as a proof in this regard whenever it is asked for. In case of default or specific complaint received from any Resident Engineer engaged under this contract, N.I.T. Rourkela shall have the authority to get the payment disbursed through its designated officer at your cost. If it is found that the total salary disbursed to the employees (Resident Engineers) posted at NIT Rourkela by the bidder is less than 75% of the order value, the differential amount shall be recovered from monthly bill of the bidder and contract shall be terminated with immediate effect without any compensation.
2. The bidder must provide EPF and ESIC or Insurance facility (as per the rules of Govt. of India) to the Resident Engineers engaged under this contract. The bidder should produce proper documents (payment challans, ECR statements, etc.) to N.I.T. Rourkela in this regard whenever it is asked for. If any irregularity found or specific complaint received from any of the Resident Engineers engaged under this contract in this regard, the amount shall be recovered from monthly bill of the bidder and contract shall be terminated with immediate effect without any compensation.
3. The bidder must arrange training to the deputed engineers at their own cost for upgradation of technical knowledge whenever required so that they can be capable to handle the challenge due to new server, storage and software setup at Computer Centre and in the data centre of NIT, Rourkela so that server infrastructure of the institute should not be affected.
4. Machineries & equipment may be provided by the Institute as per availability to be used regularly and proper record regarding usage to be kept. Deliberate misuse/ mishandling shall be the sole responsibility of the agency/ firm/ contractor.
5. The job to be executed as per the Instruction of the faculty/officer in charge designated by the Institute.
6. The agency/firm/contractor shall obtain written permission in respects of all its staff and officials for entry and working inside the hall premises and shall maintained record in this regard. Unauthorized entry and deployment of unauthorized persons without prior permissions of the Chief Warden's office is prohibited.
7. The agency/firm/contractor shall ensure that proper discipline is to be maintained by the staff and officials deputed by the agency/firm/contractor, and they shall have to behave soberly at all times while functioning inside the institute. The conduct safety and security of the staff and officials shall be the sole responsibility of the agency/firm/contractor.
8. Payment will be made/released on monthly pro-rata basis of the services extended by the agency/firm/contractor during the preceding month based on the certification by concerned HOD, Computer centre.
9. The assets and equipment provided by the Institute shall be property of the Institute and agency/firm/contractor shall be merely the custodians of such assets and equipment. On termination/ expiry of contract. Any such property shall be handed over to the Institute in proper working condition.
10. **Deficiency in Service:** If any deficiency in the contract is observed, the inspecting personnel may asses the value of the deficiency and recommend appropriate financial adjustment in the monthly bill.

C. LIQUIDATED DAMAGES:

The agency/firm/contractor shall ensure extension of the services as per the indicated in the scope of work. For any deviation there from or for any job not performed or left out or for any delayed performance, the agency/firm/contractor shall be liable for **liquidated damages @ 0.1% per day**, subject to a **maximum limit off 10% of the monthly bill**.

D. RISK AND COST:

1. In case of stoppage of performance or non-attendance to the job in extending the services as spelt out in scope of work, on any day or part of the day or days, this being an essential service without any reference, the job shall be forthwith executed by the NIT at the risk and cost of the agency/firm/contractor through alternate source.
2. Neglect or failure on the part of the contractor to execute the work will be carried out by alternate source at the risk and cost of the contractor and to the extent of alternate execution the contract will be deemed to be terminated either in part or full.

E. PAYMENT TERMS:

- i. Subject to any deduction that may have to be made in accordance with the terms and conditions of this contract, the Contractor shall be paid on-account bill on monthly basis for the work done during the previous month.
- ii. For the purpose of such monthly payments, invoices preferably in their printed forms along with the documentary proof for having deposited the Contractors' permanent employees and his laborers' contribution towards PF and pension with his jurisdictional RPF commissioner, along with the certificate from engineer's representative for provision of safety equipment to all his workers and also proof of payment of wages to his workmen in presence of the authorized representative of the employer shall be prepared and submitted by the contractor for the work done during the previous month within seven days from the expiry of the previous month.
- iii. Payments against on-account bills shall be released through within 30 days from the date submission of clear invoices and PF documents and ESI by the contractor. For this purpose, the contractor should give the details of the name of the bank, branch and account no. before submission of the first RA bills. Final bill will be paid within 60 days on completion of all formalities as per the Terms & Conditions of the Contract.
- iv. Payment shall be regulated as per terms of contract.
- v. Deduction of applicable taxes will be made the invoice and TDS certificate will be issued by finance & accounts department for such deductions.

F. Work to the satisfaction of NIT:

The contractor shall execute the work efficiently and complete it in all respects in accordance with the contract terms and conditions and shall comply with and adhere strictly to the instructions and directions on any matter in accordance to the terms of the contract.

- G. Performance Security:** The successful bidder must furnish ₹ 3,00,000/- as performance security deposit within 15 days after the award of contract. This should be drawn in favour of NIT Rourkela in the form of Bank Guarantee or Bank Draft from any scheduled commercial bank except co-operative and gramian Bank, it will be refunded after six month of expiry or completion of the contract. Any dues of the institute shall be adjusted/ recovered from such Security Deposit. The Security Deposit amount will not attract any interest.

H. **INDEMNITY**- The contractor shall indemnify NITR against any claim, order, and demand, made by competent authority & in case NIT was asked to comply such order / direction, NIT shall be entitled to recover/ adjust the said amount from the dues of the contractors.

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