



राष्ट्रीय विज्ञान शिक्षा एवं अनुसंधान संस्थान भुवनेश्वर
◁ परमाणु ऊर्जा विभाग, भारत सरकार का एक स्वयंशासित संस्थान ▷
NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH BHUBANESWAR
◁ An autonomous Institution under Department of Atomic Energy, Govt. of India ▷

संगणक केंद्र
COMPUTER CENTRE

Name of Work:

Installation of Data Points with LAN Cabling and switches for WLCG connectivity to Cluster Room at SPS Building from Data Centre.

NIT No. & Date:

NISER/CC/2018-19/012

Dated 30.10.2018

Estimated cost of tender:

₹71,368/-

Earnest Money Deposit:

₹1,427/-

Period of Completion:

15 (Fifteen) days

Last date of receipt of tender:

16th November 2018 up to 12:30 PM

Opening of (Tech. & Fin.) Bid:

16th November 2018 at 4:00 PM

This tender documents contains 11 (Eleven) Pages



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TENDER DOCUMENTS

NIT No.: NISER/CC/2018-19/012

Date: 30.10.2018

Name of work:

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NOTICE INVITING TENDER

NIT No.: NISER/CC/2018-19/012

Date: 30.10.2018

Director, NISER invites e-tenders in single bid (comprising Technical and Financial Bid) for the following work.

Name of work:

Installation of Data Points with LAN Cabling and switches for WLCG connectivity to Cluster Room at SPS Building from Data Centre.

| | |
|---------------------------------|---|
| Estimated Cost: | ₹71,368/- |
| Earnest Money: | ₹1,427/- |
| Period of Completion: | 15 (Fifteen) days |
| Last date of receipt of tender: | 16 th November 2018 up to 12:30 PM |
| Opening of (Tech. & Fin.) Bid: | 16 th November 2018 at 4:00 PM |

Tender can be downloaded and bided from website address: www.tenderwizard.com/NISER .
Tender documents for viewing only is also available in NISER web-site address: www.niser.ac.in .



Registrar, NISER

Standard e-Tender Terms & Conditions

1. The details of tender notification can be downloaded from www.tenderwizard.com/NISER under "Tenders of NISER" link.
2. Vendors should obtain the USER ID and PASSWORD from www.tenderwizard.com/NISER by clicking on "ENROLMENT" link in the homepage.
3. The Vendor registration fees has to be paid to **ITI Ltd** for ₹1,180/- including GST. Using the e-payment link provided at the time of registration, and the mode of payments are Credit Card, Debit Card and Internet Banking. Vendor Registration is Valid for ONE year.
4. For further details on e-Tender participation, please contact ITI Help desk on
 - Telephone: 080-49352000/9686115318
 - Email: harishkumar.kb@etenderwizard.com , ambasa@etenderwizard.com .
5. Tenders should be submitted only through e-Tender portal and the Tender Acknowledgement has to be retained as a proof of successful submission.



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संगणक केंद्र
COMPUTER CENTRE

Tender Notice

Director of NISER hereby invites e-tender in a Single bid (comprising Technical Bid and Financial Bid) for the following work from contractors for Computer Centre works those who have worked for DAE or its Organizations or Govt. /Semi Government organizations and have successfully carried out a minimum of one/two/three similar works (BUILDING or Lab. Wiring/ LAN Points) of 80%/60%/40% respectively of the estimated cost or above, as indicated in the prescribed format of the E-Tender portal in last seven years. The eligible contractors may submit their bid along with supporting documents of fulfilling the above conditions otherwise the bid bear the risk of not being considered.

| <i>Name of Work</i> | <i>Estimated Cost (₹)</i> | <i>Earnest Money (₹)</i> | <i>Duration of work</i> |
|---|---------------------------|--------------------------|-------------------------|
| Installation of Data Points with LAN Cabling and switches for WLCCG connectivity to Cluster Room at SPS Building from Data Centre. [NIT No. NISER/CC/2018-19/012 Dt. 30.10.2018] | 71,368/- | 1,427/- | 15 days |

The Bidders are requested to give detailed tender in E-Tender portal in the prescribed forms in single Bid (comprising Technical Bid and Financial Bid).

Tender process & award of contract: The technical bid will be evaluated to shortlist the eligible bidders. The financial bid of only the short-listed bidders shall be considered for further processing. Bidders whose technical offer is found acceptable and meeting the eligibility requirements as specified in this tender will be qualified for opening of the financial bid. NISER will open financial bid of only the technically qualified bidders.

The earnest money deposit as indicated against the work should be sent by post or by hand to **SO-E (Computer), Computer Centre, SMS Building, NISER, At/PO-Jatni, District-Khurda, Odisha-752050** so that it reaches on or before the opening of the technical bid for e-tender system, in the form of **Account Payee Bank Draft** payable on any branch of Nationalized/Schedule Bank at Bhubaneswar/Jatni in favour of **Director, NISER** payable at Bhubaneswar/Jatni in a sealed envelope. All tenders submitted without requisite amount of earnest money shall be rejected and their technical and financial bid shall not be opened. No interest is payable on EMD.

Director of NISER, reserves the right to accept/reject any/all tenders without assigning any reason whatsoever. Part or incomplete tenders will be summarily rejected. No further correspondences whatsoever shall be entertained in this regard. Canvassing in any manner shall result in rejection of the tender.

Any dispute arising out of this shall subject to Bhubaneswar jurisdiction only.



Registrar, NISER

General Terms & Conditions

1. E-tenders are hereby invited from contractors for the Computer Centre Works NISER, Bhubaneswar for the work of Supply and Installation of Data Points with LAN cabling and other passive network works for video conferencing at Directorate and Computer Centre and at computer lab of School of Humanities & Social Sciences of NISER Jatni Campus. Registered/empanelled contractors of CPWD, MES, Railways and State PWDs and/or those who have worked for DAE or its units or in any Govt./Semi Govt. organizations and have successfully carried out minimum one/two/three similar work (BUILDING or Lab. Wiring/ LAN Points work) of 80%/60%/40% respectively of the estimated cost in the last seven years, are eligible. The eligible contractors may submit their bid along with supporting documents of fulfilling the above conditions otherwise their bids bear the risk of not being considered.

In support of fulfilling all the essential conditions mentioned in the previous para the contractor shall submit the details of the past work, mentioning the name of work, estimated cost, tendered amount, gross value of work done, date of commencement as per agreement & actual date of completion as per agreement along with schedule of quantities executed and any penalty levied due to delay in executing the work from an officer not below the rank of Executive Engineer. The estimated cost of the work is ₹71,368.00/- (INR Seventy-One Thousand Three Hundred Sixty-Eight only).

2. Period for completion of the work will be **15 (Fifteen) days** and the date of commencement shall be reckoned from the tenth day of issue of award letter. The tender documents can be made available at the office of SO-E (Computer) on written request.
3. The earnest money deposit as indicated against the work **along with hardcopy of technical bid ONLY** should be sent by post or by hand to "SO-E (Computer), Computer Centre, SMS Building, NISER, At/PO-Jatni, District-Khurda, Odisha-752050" so that it reaches on/before the opening of the technical bid for e-tender system, in the form of **Account Payee Bank Draft** payable on any branch of Nationalised/Scheduled Bank at Bhubaneswar/Jatni in favour of "Director, NISER" in a sealed envelope. All tenders submitted without requisite amount of earnest money shall be rejected and their technical and financial bid shall not be opened. No interest is payable on EMD. The EMD will be returned to the bidders(s)/Agents whose offer is not accepted by NISER within one month from the date of the placing of the final order(s) on the selected bidder(s). In case of the bidder(s) whose offer is accepted the EMD will be returned on submission of Performance Bank Guarantee (if applicable). However, if the return of EMD is delayed for any reason, no interest /penalty shall be payable to the bidders.
4. The details of tender notification can be download from www.tenderwizard.com/NISER under "**Tenders of NISER**" tab. Vendors should obtain the USER ID and PASSWORD from www.tenderwizard.com/NISER by clicking on "**ENROLMENT**" tab in the homepage. The Vendor registration fees has to be paid to ITI Ltd for ₹1,180/-. Using the e-payment link provided at the time of registration, and the mode of payments are Credit / Debit Card and Internet Banking. Vendor Registration is Valid for 1year. Tenders should be submitted only through e-Tender portal and the Tender Acknowledgement copy should be obtained as a proof of successful submission. Tenders document can also be downloaded from NISER website: <http://www.niser.ac.in/content/tender>, or collected from the office of SO-E (Computer).
5. The Bidders are requested to give detailed tender document in E-Tender portal in the prescribed forms in single Bid (comprising Technical and Financial Bid). The scanned copy of EMD draft must also be uploaded by the bidder.
6. E-Tenders should be applied before the closing date and time indicated.
7. The technical bid will be evaluated to shortlist the eligible bidders. The financial bid of only the shortlisted bidders shall be considered for further processing. Bidders whose technical offer is found acceptable and meeting the eligibility requirements as specified in this NIT will be considered for opening of the financial bid. NISER will open financial bids of only the technically qualified bidders. Please note that bids submitted without EMD will summarily be rejected.
8. Director of NISER does not bind himself to accept the lowest or any tender and reserves the right to accept the tender either in whole or in part. The decision of the Director shall be final in this regard.
9. Canvassing in any manner or form will lead to rejection of the Bid.
10. The tenderer shall not be permitted to bid for works in any unit of DAE where any of his/her relatives are employed. He shall also intimate the names of any such persons who are working with him in any capacity or subsequently employed by him and whose relatives are working in DAE or its units.

NOTE: A person shall be deemed to be a relative of another if, (a) they are members of a Hindu undivided family; or (b) they are husband and wife; or (c) the one is related to the other in the following manner : Father, Mother (including step mother), Son (including step son), Son's wife, Daughter (including step daughter), Father's father, Son's son, Son's wife, Son's daughter, Son's daughter's husband, Daughter's husband, Daughter's son, Daughter's son's wife, Daughter's daughter, Daughter's husband, Brother (including step brother), Brother's wife, Sister (including step sister), Sister's husband.

11. Contact for Technical information: (Only E-mail enquiries will be entertained)
Mr. Deepankar Dash
SA-C (Computer)
Computer Centre, NISER
E-Mail: ddash@niser.ac.in

12. **All the price quoted should be Inclusive of taxes.** The Bid shall remain valid for a minimum period of 90 days from the date of opening of the tender for the purpose of acceptance and award of work. Validity beyond 90 days from the date of opening shall be by mutual consent.
13. The tenderer should see and obtain the drawings. In case of any queries, necessary clarifications may please be sought from the office of the Scientific Officer-E (Computer). No claim whatsoever will be entertained in this regard for any alleged ignorance, thereof.
14. Before tendering, the tenderer shall inspect the site to fully acquaint himself about the condition in regard to accessibility to site, nature and extent of ground, working condition of site and locality including stacking of materials, conditions affecting accommodations and movement of labour, etc., which are required for satisfactory execution of the work. No ignorance of the same, whatsoever shall be entertained under any circumstances.
15. EMD is liable to be forfeited if the contractor fails to commence the work as per award letter.
16. Some of the provisions of the contract are given below.
 - a) DEFECT LIABILITY PERIOD – Twelve months from the date of completion as certified by the authorized engineer.
 - b) MINIMUM VALUE OF WORK FOR THE INTERMEDIATE CERTIFICATE – Intermediate certificate for a lesser amount can be admitted for payment at the discretion of the Institute.
 - c) SECURITY DEPOSIT – EMD shall be kept back as security deposit throughout the Defect Liability Period.
 - d) COMPENSATION – In the event of any delay in completion of the work beyond the scheduled period, the contractor shall pay an amount equal to one per cent of the total cost of work or such smaller amount as decided by Director of NISER (whose decision shall be final) as compensation to the institute, for every week that the work remains un-commenced or unfinished. Compensation to be paid shall not exceed ten per cent of the estimated cost of the total work as per award letter.
17. Stores to be issued: No material shall be issued by the Institute. The responsibility for arranging all materials from approved manufacturer as per award letter lies with the contractor.
18. There will be deduction of Tax from every RA bill and also from the final bill of the contractor at the rate prescribed by Govt. of India from time to time.
19. The successful bidder will be required to submit the names, qualifications and experiences of the supervising staff to be deployed for execution of the work. In case of any changes occurring during the course of execution of the said work, the same shall also be intimated by the bidder to the institute.
20. The tenderer should also submit the detail list of tools and plants/ machineries/ equipment, etc. that he proposes to place at the site of work.
21. The Contractor shall have to make his own arrangements for storage of materials required for execution of the work and NISER in any manner shall NOT be held responsible for the storage and safe custody of the said materials at work site.
22. Electricity will be supplied to the site of work at one point only if required and Contractor can do onward distribution with metering arrangement as per the requirement. Electricity charges; if any will be recovered from the Contractor's bill based on meter readings towards its consumption.
23. Before commencement of the work, the contractor has to submit the list of tools and plants brought to the site of work. No items other than the list submitted will be allowed to be taken out from the work site.
24. All the mandatory testing charges will be borne by the contractor.
25. Cost escalation in any manner whatsoever, will not be accepted for the said work, where in the stipulated period of completion of work is 18 (eighteen) months or less.
26. **The tenderer shall show all the original documents which he/she has furnished in the tender within two working days after opening of bid, else otherwise the bid of the tenderer will not be accepted.**
27. The work will be executed as per DAE works procedure under the supervision of Officer in-charge of NISER.



Registrar, NISER

LIST OF WORKS COMPLETED BY THE CONTRACTOR

Detail list of works, completed satisfactorily during last five years (minimum 3), the value of such completed works should be approximately of the same value or near to the value of the present work, for which tender is being submitted by the contractor to NISER.

| Name of works | Location of site | Value of Work | Name of organization/ engineer in charge under whom the work is completed |
|----------------------|-------------------------|----------------------|--|
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N.B: The copy of work order and completion certificates from the organization may be attached.

DETAILED CREDENTIALS OF THE CONTRACTOR

Contractors shall fill this form and enclose it with the original copy of tender (Technical Bid)

Name of the Contractor: _____

Firm of the Contractor: _____

Telephone No. (Official): _____

Office Address: _____

Residential Address: _____

Is the firm limited? : Yes No

Give name and address of partners:

| Name(s) | Address (s) |
|----------------|--------------------|
| (a) _____ | _____ |
| (b) _____ | _____ |
| (c) _____ | _____ |

| | |
|-------------------|--|
| Partnership deed | <i>(Please enclose self-attested copy with the bid)</i> |
| Name of Bankers | M/s _____ |
| Power of Attorney | <i>Please enclose attested copy/original Power of Attorney in case of firm</i> |

NAME AND ADDRESS OF PERSON HOLDING POWER OF ATTORNEY

Name _____

Address _____

Specimen signature, of persons holding Power of Attorney.
Registration particulars.

1. Registered with: _____
2. Registration No.: _____
3. Financial limit up to which registered: _____
4. Trade for which registered: _____
5. Details of BUILDING (if any): _____
6. Details of Furniture (if any): _____
7. Details of Electrification (if any): _____
8. Details of Sanitary: _____

TECHNICAL SPECIFICATIONS

1. The OEM should be ISO9001:2008 Certified Facility in India. If the company has environmental management systems in place like ISO14001 accreditation the same shall be added advantage.
2. OEM and their Brand quoted should have minimum 05 Years of Installation presence in India. Proof of Documents to be attached.
3. OEM authorization should be provided by the contractor.
4. Casing Capping & Conduit should be included with the laying of cable.
Casing Capping & Conduit should be ISI marked.
5. The entire passive network should be tested before commissioning.

OEM Eligibility

| Sl. No. | General terms and conditions for Cat.6 Structured Cabling Systems: | Yes / No Deviation if any |
|---------|--|------------------------------|
| 1 | Passive OEM should be in India for 10 years, have to submit certificate of Incorporation. | |
| 2 | The Cat-6 SCS must be tested by an accredited 3 rd Party test facility to the standard: EIA/TIA 568C: Category 6 Channel. 3 rd Party verification for 100m channel testing must be provided as part of the bid response. Copies of test reports should be appended to this RFP. | |
| 3 | OEM shall provide minimum one year extended product warranty, channel performance and Application assurance as a part of certification of entire installed cable plant and on performance for all the offered products. | |
| 4 | OEM should provide below mentioned third party test report for Cat-6 LSZH Cable: Transmission Test: TIA/EIA 568 C.2 Channel Test: TIA/EIA 568 C.2 Smoke Density Test: IEC61034-1 Halogen Acid Gas Content: IEC60754-1 Flame Retardancy Test: IEC60332-1 | |
| 5 | All offered components must be ROHS compliant. This compliance must be mentioned in datasheets. | |
| 6 | OEM should be present in the Telecommunications Industry Association (TIA) member list and must that should be reflected in the official website of TIA. | |

CAT6 Patch Cord Specification

| Sl No. | Details | Specification | Yes/No Deviation if any |
|--------|--|--|----------------------------|
| 1 | Type | Unshielded Twisted Pair, Category 6, TIA / EIA 568-C.2 & ISO/IEC 11801 | |
| 2 | Plug Protection | Factory fitted Strain relief boots on either side | |
| 3 | Flammability Rating | UL Listed | |
| 4 | Safety Standard | ETL/3 rd Party | |
| 5 | Insertion Life | Minimum 750 Mating Cycle | |
| 6 | Jacket | LSZH | |
| 7 | Operating Environment Temperature Range | Temperature range of -10°C to +60°C | |
| 8 | ROHS Compliance | ROHS Compliant | |

CAT6 Face Plate Specification

| Sl No. | Details | Specification | Yes/No Deviation if any |
|--------|-----------------|----------------|----------------------------|
| 1 | Approvals | UL Listed | |
| 2 | ROHS Compliance | ROHS Compliant | |

CAT 6 Cable Specifications

| Sl No. | Details | Specification | Yes/No Deviation if any |
|--------|------------------------|---|-------------------------|
| 1 | Cable Type | Unshielded Twisted Pair, Category 6, TIA / EIA 568 C.2& ISO/IEC 11801 2 nd edition. | |
| 2 | Conductor type | Solid bare copper | |
| 3 | Insulation | Polyethylene/Polyolefin or equivalent or even better | |
| 4 | Jacket | LSZH jacket must complying to: Fire rating IEC 60332 Acid gas IEC 60754 Smoke density IEC 61034 | |
| 5 | Pair Separator | Cross-member (+) fluted spline | |
| 6 | Frequency tested up to | 250 MHz or More; ETL report for 4 connector channel performance up to 600 MHz to be provided. | |
| 7 | Packing | Box of 305 metres | |
| 8 | Delay Skew | Maximum 45 ns @ 100 MHz | |
| 9 | Impedance | 100Ω +/- 15Ω | |
| 10 | Mutual Capacitance | 5.6 nF MAX / 100 m | |
| 11 | Conductor Resistance | 10Ω MAX / 100 m | |
| 12 | Conductor Gauge | 24 AWG (23 AWG not recommended) | |
| 13 | Bend Radius | 4 x Cable Diameter | |
| 14 | ROHS Compliance | ROHS Compliant | |

24-port Unmanaged 10/100/1000 Mbps Switch (Cisco SG95-24)

| Sl No. | Details | Specification | Yes/No Deviation if any |
|--------|---------------------|--|-------------------------|
| 1 | Standard | IEEE 802.3 10BASE-T Ethernet, IEEE 802.3u 100BASE-TX Fast Ethernet, IEEE 802.3ab 1000BASE-T Gigabit Ethernet, IEEE 802.3z Gigabit Ethernet, IEEE 802.3x Flow Control, 802.1p priority, Energy Efficient Ethernet | |
| 2 | Switching Capacity | 48 Gbps | |
| 3 | Forwarding Capacity | 35.7 Mpps | |

MEASUREMENT AND RA/FINAL BILL

1. The contractor shall submit his running and final bills with detail measurement for the purpose of payment & bills shall be processed by the various offices for payment, as per existing procedure. He has to sign the MB Book as an acceptance to the measurements carried out by the engineer in charge of NISER, based on which the RA/Final Bill shall be generated for payment. Pentascan/ Fluke measurement shall also be considered for actual measurement of CAT-6 cable length.
2. The contractor shall extend all possible co-operations for checking the measurement. Decision of the staff in charge of NISER shall prevail. In case of any dispute, the final decision lies with the Director of NISER, which shall be binding on both the parties.

OTHERS

If, the contractor has to remove/dismantle any old, damaged wiring & fixtures etc. for the purpose of execution of the said work, the same shall be deposited with NISER Stock Yard along with the list of materials under intimate to the concerned staff in-Charge. No extra payment will be made by the institute for this purpose.





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NIT No.: NISER/CC/2018-19/012

Dated: 30.10.2018

Name of work:

Installation of Data Points with LAN Cabling and switches for WLCG connectivity to Cluster Room at SPS Building from Data Centre.

SCHEDULE OF QUANTITIES AND SERVICES/LABOUR CHARGE

| Sl. | Description | Unit | Qty. | Rate | Amount | Mention make/model & deviation in specification, if any |
|------------------|--|-------|------|------|--------|---|
| Materials | | | | | | |
| 1 | 24-Port Unmanaged 10/100/1000 Switch Make/Model: Cisco SG95-24 | Each | 02 | | | |
| 2 | CAT6 UTP Cable Box (305 M) | Each | 03 | | | |
| 3 | CAT6 Single Face Plate I/O with Surface Mount Box | Each | 04 | | | |
| 4 | CAT6 UTP 3 metre LSZH Patch Cord | Each | 04 | | | |
| 5 | CAT6 UTP 1 metre LSZH Patch Cord | Each | 08 | | | |
| Services | | | | | | |
| 6 | CAT6 Cable Laying through Casing-Capping & Conduit | Metre | 900 | | | |
| 7 | I/O Termination and Fixing | Each | 04 | | | |
| Total : | | | | | | |

(Rupees _____ Only)

No. of Cuttings: _____

No. of Corrections: _____

No. of Overwriting: _____

Signature of Tenderer with date & address

NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH

www.tenderwizard.com/NISER

Notice Inviting E-Tender No.: NISER/CC/2018-19/012 DTD: 30.10.2018

"Installation of Data Points with LAN Cabling and switches for WLCG connectivity to Cluster Room at SPS Building from Data Centre"

Name of the Vendor

| SI No. | Description | Unit | Qty. | Unit Price in INR (Including GST) | Amount in INR |
|--------|---|-------|------|-----------------------------------|---------------|
| 1 | 24-Port Unmanaged 10/100/1000 Switch Make/Model: Cisco SG95-24 | Each | 2 | | 0.00 |
| 2 | CAT6 UTP Cable Box (305 M) | Each | 3 | | 0.00 |
| 3 | CAT6 Single Face Plate I/O with Surface Mount Box | Each | 4 | | 0.00 |
| 4 | CAT6 UTP 3 metre LSZH Patch Cord | Each | 4 | | 0.00 |
| 5 | CAT6 UTP 1 metre LSZH Patch Cord | Each | 8 | | 0.00 |
| 6 | CAT6 Cable Laying through Casing-Capping & Conduit | Metre | 900 | | 0.00 |
| 7 | I/O Termination and Fixing | Each | 4 | | 0.00 |
| | Total Amount (incl. GST) | | | | 0.00 |

THIS IS AN ELECTRONIC BID SHEET SEAL AND SIGNATURE IS NOT REQUIRED