



# राष्ट्रीय विज्ञान शिक्षा एवं अनुसंधान संस्थान, भुवनेश्वर

(परमाणु उर्जा विभाग, भारत सरकार का एक स्वयं शासित संस्थान)

**NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, BHUBANESWAR**

(AN AUTONOMOUS INSTITUTE UNDER DEPT. OF ATOMIC ENERGY, GOVT. OF INDIA)

Name of Work: -“Supply and Installation of Data Points and LAN cabling and other required computer networking materials at Mathematical Lab, Faculty Lounge, PhD Scholar Room of SMS Building and Room No.211 of SPS Building and LH-1,LH-2,LH-3,LH-4,LH-5 of Library Building and A-1,A-2 Guest House and CIF Common Lab-2,CIF Common Lab-3,Instrument Room of SCS Building and Room No.220,BL-1,2,3,5,7 of SBS Building of NISER Jatni Campus”

NIT No. & Date:-NISER/CC/(2016-17)/008 Dt.10.10.2017

Estimated cost of tender: - ₹6,54,101.00/-

Completion time: - 60 (Sixty) days

This tender documents contains 21(Twenty One) Pages

## NAME OF THE WORK

“Supply and Installation of Data Points and LAN cabling and other required computer networking materials at Mathematical Lab, Faculty Lounge, PhD Scholar Room of SMS Building and Room No.211 of SPS Building and LH-1,LH-2,LH-3,LH-4,LH-5 of Library Building and A-1,A-2 Guest House and CIF Common Lab-2,CIF Common Lab-3,Instrument Room of SCS Building and Room No.220,BL-1,2,3,5,7 of SBS Building of NISER Jatni Campus”

### NOTE

The tenderer should enclose the following documents along with the Technical Bid otherwise tender will be summarily rejected.

- 1)
  - a) Self attested copy of works completed during the last five years from Govt. /Semi Govt. organization not below the rank of E.E as per NIT.
  - b) Self attested copy of valid Registration Certificate.
  - c) Self attested copy of PAN card.
  - d) Self attested copy of VAT clearance certificate.
  - e) Self attested copy of GST Registration certificate.
  - f) The cost of tender paper for the bidders who submit the downloaded tender document and EMD amount in separate D.D's as per NIT.(Please note that no physical copy of the tender document will be supplied in person, the same may please be downloaded from website.)
- 2) Contractors shall enclose the above documents (self-attested) along with the bid. Any conditional/ changed or altered bids are liable for rejection. The bidders shall sign all the pages of technical bid i.e. NIT, Architectural Drawing (if any), as acceptance of the terms and conditions.
- 3) Incomplete/Partial bid or bid not submitted in prescribed format will be rejected. Bids not submitted/received within stipulated date/time as per NIT will not be accepted.



राष्ट्रीय विज्ञान शिक्षा एवं अनुसंधान संस्थान, भुवनेश्वर  
(परमाणु उर्जा विभाग, भारत सरकार का एक स्वयं शासित संस्थान)  
**NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, BHUBANESWAR**  
(AN AUTONOMOUS INSTITUTE UNDER DEPT. OF ATOMIC ENERGY, GOVT. OF INDIA)

**TENDER DOCUMENTS**

**NIT NO. NISER/CC/(2016-17)/008**

**Date:10.10.2017**

Name of work: -“Supply and Installation of Data Points and LAN cabling and other required computer networking materials at Mathematical Lab, Faculty Lounge, PhD Scholar Room of SMS Building and Room No.211 of SPS Building and LH-1,LH-2,LH-3,LH-4,LH-5 of Library Building and A-1,A-2 Guest House and CIF Common Lab-2,CIF Common Lab-3,Instrument Room of SCS Building and Room No.220,BL-1,2,3,5,7 of SBS Building of NISER Jatni Campus”

**I N D E X**

Sl. No.	Particulars	Page No.	Remarks
1.	Notice Inviting Tender and General Term and Condition for works.	1- 9	First part i.e. Tech. Bid
2.	Detail credential of the Contractor	10	-Do-
3.	Schedule of Quantities	11-14	Second part i.e. Financial Bid
4.	Summary Sheet	15	-Do-
5.	Abstract of cost	16	-Do-
6.	Technical Specifications and other conditions of work	17-21	-Do-

**NOTE:** Tenderer should confirm that they have received all the above papers. All the documents issued is to be returned duly signed by the tenderer while submitting his offer as a token of acceptance of the terms and conditions of NIT.

**TENDER ISSUED TO:**

M/s. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Telephone No. \_\_\_\_\_

**Registrar,NISER**



# राष्ट्रीय विज्ञान शिक्षा एवं अनुसंधान संस्थान, भुवनेश्वर

(परमाणु उर्जा विभाग, भारत सरकार का एक स्वयं शासित संस्थान)

**NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, BHUBANESWAR**

(AN AUTONOMOUS INSTITUTE UNDER DEPT. OF ATOMIC ENERGY, GOVT. OF INDIA)

## **NOTICE INVITING TENDER**

Director of NISER invites sealed tender on **Single envelope system** for the following work:-

**NIT NO. NISER/CC/(2016-17)/008 Dated. 10.10.2017**

Name of work: -“Supply and Installation of Data Points and LAN cabling and other required computer networking materials at Mathematical Lab, Faculty Lounge, PhD Scholar Room of SMS Building and Room No.211 of SPS Building and LH-1,LH-2,LH-3,LH-4,LH-5 of Library Building and A-1,A-2 Guest House and CIF Common Lab-2,CIF Common Lab-3,Instrument Room of SCS Building and Room No.220,BL-1,2,3,5,7 of SBS Building of NISER Jatni Campus”

Estimated Cost	: Rs.6,54,101/-
Earnest Money	: Rs.13,082/-
Period of Completion	: 60 (Sixty Days)
Cost of tender (non-refundable)	: Rs.500/-(Rupees Five Hundred Only)

Last date of receipt of tender: **31<sup>st</sup> October 2017 up to 3.30 PM**

**Registrar,NISER**



राष्ट्रीय विज्ञान शिक्षा एवं अनुसंधान संस्थान, भुवनेश्वर  
(परमाणु उर्जा विभाग, भारत सरकार का एक स्वयं शासित संस्थान)  
**NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, BHUBANESWAR**  
(AN AUTONOMOUS INSTITUTE UNDER DEPT. OF ATOMIC ENERGY, GOVT. OF INDIA)

**Tender Notice**

**NIT NO. NISER/CC/(2016-17)/008**

**Date:10.10.2017**

Director of NISER hereby invites sealed tender in a Single envelope for the following work from 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 below during the last five years. The eligible contractors may submit their bid along with supporting documents of fulfilling the above conditions otherwise the bids bear the risk of not being considered. The eligible contractors are also required to submit the self-attested copies of PAN Card, Registration and VAT certificate etc. as mentioned in the NIT.

In support of fulfilling all the essential conditions mentioned in the previous Para the contractor shall submit the past details, 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 at CPWD.

Name of Work	Estimated Cost ₹	Earnest Money ₹	Duration of work
<b>Name of the work:</b> “Supply and Installation of Data Points and LAN cabling and required computer networking materials at Mathematical Lab, Faculty Lounge, Scholar Room of SMS Building and Room No.211 of SPS Building and LH-1,LH-3,LH-4,LH-5 of Library Building and A-1,A-2 Guest House and CIF Common Lab, Common Lab-3,Instrument Room of SCS Building and Room No.220,BL-1,2,3, SBS Building of NISER Jatni Campus” NIT No. NISER/CC/(2016-17)/008 Dt.10.10.2017	6,54,101.00/-	13,082.00/-	60 (Sixty) Days

The tender document can be downloaded from the Institute’s website <http://www.niser.ac.in> & submitted along with tender cost of ₹500.00 & EMD of ₹13,082.00, separately in the form of A/C payee DD/ Banker’s cheque drawn on any scheduled Bank, in favor of **Finance Officer of NISER**.

The tender documents are to be submitted in a Single envelope in sealed cover. The documents in support of eligibility criteria of the contractor, tender cost and EMD along with the bid are to be submitted in a sealed cover superscripting the name of work, address of contractor and date of opening. Bids complete in all respects will be accepted up to **3.30 PM on 31<sup>st</sup> October 2017** and **the bid will be opened at 4.00 PM on 31<sup>st</sup> October 2017**.

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 and Conditions:**

1. Sealed tenders are hereby invited from the empanelled contractors for the Computer Centre Works NISER, BBSR for the work of -“Supply and Installation of Data Points and LAN cabling and other required computer networking materials at PDF Room of SPS building and Scholar Room of SHSS building and B-1 building of NISER Jatni Campus” The estimated cost of work is ₹6,54,101.00/- . The Earnest Money Deposit is ₹13,082.00/-. 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 and above during the last five years, 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. The eligible contractors are also required to submit the self-attested copies of PAN card, registration and VAT certificate and GST registration certificate.

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.

2. The estimated cost of the work is ₹6, 54,101.00/-(Rupees Six Lakhs Fifty Four Thousand One Hundred One Only).
3. Period for completion of the work will be **60 (Sixty) 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 along with the tender cost through DD. No cash will be accepted towards tender cost.
4. Tenders should be submitted in the prescribed format (Non-transferable), which may be down loaded from NISER website: www.NISER.ac.in, or collected from the office of the **SO-E (Computer)** by depositing the tender cost of ₹500/-(Rupees Five Hundred Only) through A/c payee DD or pay order from any scheduled bank drawn in favor of the Finance Officer of NISER. In case of downloaded tenders, the cost of tender document shall be submitted along with the bid. Please note that tender documents are not transferable.
5. Tender documents are to be submitted in a sealed cover. The cost of tender (if downloaded), EMD and the documents in support of eligibility criteria along with the

bid should be covered in a single envelope super scribing the name of work, address of contractor and date of opening. Tenders complete in all respects, will be accepted up to **3.30 PM on 31<sup>st</sup> October 2017**. The bid shall be opened at **4.00 PM on 31<sup>st</sup> October 2017**. Please note, that bids submitted without tender cost (if downloaded) and EMD are summarily being rejected.

6. Tenders should be dropped in the Tender Box before the closing date and time indicated above or should be sent by regd. /speed post to **Scientific Officer-E (Computer)** of NISER at **Jatni Campus, Bhipur, Dist: Khurda, Pin-752050** to ensure that the same reaches before the date and time indicated above. Late or delayed tenders are liable for rejection.
7. The Earnest Money amounting to **₹13,082.00(Rupees Thirteen Thousand Eighty Two Only)** as demand draft or pay order from any scheduled Bank and drawn in favor of the Finance Officer of NISER should be deposited along with the tender documents. Tender received without earnest money will be invalid and reject
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.
11. All the price quoted should be **Exclusive of taxes**.

**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.

12. 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 shall quote the rates both in figures as well as words. The cost of individual items shall also be worked out and mentioned in the financial bid (both in figures and words). On check if there are differences between the rates quoted by the tenderer in words and in figures or in the amount worked out by him, the following procedure shall be followed
- i) When there is a difference between the rates in figures and in words, the rates, which correspond to the amounts worked out by the bidder for individual items, shall be reckoned.
  - ii) In case, the amount of an individual item is not mentioned by the bidder or it does not correspond with the rate written either in figures or in words, the rate quoted by the bidder in words shall be reckoned.
  - iii) In case the rate quoted by the bidder, both in figures and in words tallies but the amount is not worked out correctly, the total rate quoted by the bidder shall be taken as correct
14. 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.
15. 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 labor, etc., which are required for satisfactory execution of the work. No ignorance of the same, whatsoever shall be entertained under any circumstances.
16. EMD is liable to be forfeited if the contractor fails to commence the work as per award letter.
17. Except writing rates and amount, the tenderer should not write any conditions or make any changes, additions, alterations and modifications in the printed tender form. tenderer who are desirous to offer rebate the same should be brought out separately in the covering letter and submit along with the financial bid.
18. 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) **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.

19. 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
20. There will be deduction of VAT/IT/WCT 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.
21. 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.
22. 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.
23. 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 be held responsible for the storage and safe custody of the said materials at work site.
24. 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.
25. 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.
26. All the mandatory testing charges will be borne by the contractor.
27. 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.
28. **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 considered.**

**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

N.B:- The copy of work order and completion certificates from the organization may be attach

## DETAIL 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 (Please enclose self attested copy with the bid)

Name of Bankers M/s. \_\_\_\_\_

Power of Attorney Please enclose attested copy/original Power of Attorney in case of firm

**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



# राष्ट्रीय विज्ञान शिक्षा एवं अनुसंधान संस्थान, भुवनेश्वर

(परमाणु उर्जा विभाग, भारत सरकार का एक स्वयं शासित संस्थान)

**NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, BHUBANESWAR**

(AN AUTONOMOUS INSTITUTE UNDER DEPT. OF ATOMIC ENERGY, GOVT. OF INDIA)

NIT NO. NISER/CC/(2016-17)/008

Dated:10.10.2017

Name of work: “Supply and Installation of Data Points and LAN cabling and other required computer networking materials at Mathematical Lab, Faculty Lounge, PhD Scholar Room of SMS Building and Room No.211 of SPS Building and LH-1,LH-2,LH-3,LH-4,LH-5 of Library Building and A-1,A-2 Guest House and CIF Common Lab-2,CIF Common Lab-3,Instrument Room of SCS Building and Room No.220,BL-1,2,3,5,7 of SBS Building of NISER Jatni Campus”

## SCHEDULE OF QUANTITIES

Sl No.	Description	Unit	Qty.	Rate	Amount	Mention make & model & deviation in specification if any
1	CAT6 UTP CABLE (Rate in Words: _____ _____)	Meter	4500			
2	CAT6 SINGLE FACE PLATE I/O WITH SURFACE MOUNT BOX (Rate in Words: _____ _____)	No's	140			
3	24 PORT CAT6 PATCH PANEL (Rate in Words: _____ _____)	No's	11			

4	CAT6 UTP 2 METER PATCH CORD (Rate in Words: _____ _____)	No's	145			
5	CAT6 UTP 1 METER PATCH CORD (Rate in Words: _____ _____)	No's	145			
6	CISCO 24PORT GIGA UNMANAGED SWITCH(CISCO SF-95-24) (Rate in Words: _____ _____)	No's	12			

(Rupees \_\_\_\_\_ Only)

No. of Cutting :  
 No. of Corrections :  
 No. of Over writing :

**Signature of Tenderer  
 with date & address**

	<b><u>SERVICE/LABOUR CHARGE</u></b>				
<b>6</b>	CAT6 CABLE LAYING THROUGH CASING CAPING & CONDUIT  (Rate in Words:_____)	Meter	4500		
<b>7</b>	INFORMATION OUTLET TERMINATION AND FIXING  (Rate in Words:_____)	No's	140		
<b>8</b>	FIXING OF PATCH PANEL (Rate in Words:_____)	No's	11		
<b>9</b>	24 PORT UNMANAGED SWITCH DRESSING,RACK FIXING AND DRESSING (Rate in Words:_____)	No's	12		

Total No. of cuttings:

Total No. of corrections:

Total No. of Over writings:

**Signature of the Tenderer  
With date & address**



राष्ट्रीय विज्ञान शिक्षा एवं अनुसंधान संस्थान, भुवनेश्वर  
(परमाणु उर्जा विभाग, भारत सरकार का एक स्वयं शासित संस्थान)  
**NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, BHUBANESWAR**  
(AN AUTONOMOUS INSTITUTE UNDER DEPT. OF ATOMIC ENERGY, GOVT. OF INDIA)

**TENDER DOCUMENTS**

NIT NO. NISER/CC/(2016-17)/008

Date:10.10.2017

Tender for “Supply and Installation of Data Points and LAN cabling and other required computer networking materials at Mathematical Lab, Faculty Lounge, PhD Scholar Room of SMS Building and Room No.211 of SPS Building and LH-1,LH-2,LH-3,LH-4,LH-5 of Library Building and A-1,A-2 Guest House and CIF Common Lab-2,CIF Common Lab-3,Instrument Room of SCS Building and Room No.220,BL-1,2,3,5,7 of SBS Building of NISER Jatni Campus”

**SUMMARY SHEET**

1. Total Cost brought forward from Page No.12-Schedule of quantities:  
Rs.
2. Total Cost brought forward from Page No.13-Schedule of quantities:  
Rs.
3. Total Cost brought forward from Page No.14-Service Charge:  
Rs.

**TOTAL**

(Rupees \_\_\_\_\_  
\_\_\_\_\_)

C.O. to Page - 16: ABSTRACT OF COST Rs. \_\_\_\_\_

**Signature of the Tenderer**



राष्ट्रीय विज्ञान शिक्षा एवं अनुसंधान संस्थान, भुवनेश्वर  
(परमाणु उर्जा विभाग, भारत सरकार का एक स्वयं शासित संस्थान)  
**NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, BHUBANESWAR**  
(AN AUTONOMOUS INSTITUTE UNDER DEPT. OF ATOMIC ENERGY, GOVT. OF INDIA)

**TENDER DOCUMENTS**

NIT NO. NISER/CC/(2016-17)/008

Date: 10.10.2017

Tender for “Supply and Installation of Data Points and LAN cabling and other required computer networking materials at Mathematical Lab, Faculty Lounge, PhD Scholar Room of SMS Building and Room No.211 of SPS Building and LH-1,LH-2,LH-3,LH-4,LH-5 of Library Building and A-1,A-2 Guest House and CIF Common Lab-2,CIF Common Lab-3,Instrument Room of SCS Building and Room No.220,BL-1,2,3,5,7 of SBS Building of NISER Jatni Campus”

**ABSTRACT OF COST**

TOTAL COST BROUGHT FORWARD FROM PAGE 12 to15

(Rupees \_\_\_\_\_

\_\_\_\_\_ ) Only

Signature of the Tenderer



## Technical Specifications

1. The OEM should be ISO 9001:2000 & QS: 9000 Certified. If the company has environmental management systems in place like ISO 14001 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. All the passive component should belong to the single OEM.
6. In Order to give 20-25 Years of extended product warranty the entire passive network should be scanned using PentaScan/Fluke or Equivalent device duly calibrated by IEEE. Only electronic format test report taken from equipment is acceptable.

## OEM Eligibility

Sl. No.	General terms and conditions for Cat6 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 Cat6 SCS must be tested by an accredited 3rd Party test facility to the following standards: - EIA/TIA 568C: Category 6 Channel 3rd 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 min 20-25 years 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 a below mentioned third party test report for Cat6 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	
6	All offered components must be ROHS compliant. ROHS compliance shall be mentioned in datasheets.	

## CAT 6 Cable Specifications

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 <sup>nd</sup> edition & UL 444 standard.	
2	Conductors	23 AWG Solid bare copper	
3	Insulation	Polyethylene or Polyolefin	
4	Jacket	<b>LSZH jacket must complying to:</b> Fire rating IEC60332-1 Acid gas IEC 60754-2 Smoke density IEC 61034-1	
5	Pair Separator	Cross-member (+) fluted spline	
6	Frequency tested up to	<b>Minimum 250 MHz; ETL report for 4 connector channel performance up to 250 MHz to be provided.</b>	
7	Packing	Box of <b>305</b> meters	
8	Delay Skew	45 ns @ 100 MHZ	
9	Impedance	100 Ohms + / - 15 ohms	
10	Mutual Capacitance	5.6 NF MAX /100 Mtr.	
11	Conductor Resistance	6.9 ohms MAX/100 Mtr.	
12	Bend Radius	4 * Cable Diameter	
13	ROHS Compliant	ROHS Compliant	

## CAT6 Face Plate Specification

SL No.	Details	Specification	Yes/No Deviation if any
1	Type	<b>Should be Simplex/Duplex/Quad</b>	
2	Material	High-impact, fire retardant plastic, ABS, UL-rated 94 V-0	
3	Approvals	UL 94 V-0	
4	ROHS Compliant	ROHS Compliant	

### CAT6 UTP Jack Specification

SL No.	Details	Specification	Yes/No Deviation if any
1	Type	Electrical performance guaranteed to meet or exceed latest TIA/EIA 568 Category 6 and ISO/IEC Category 6/Class E specifications	
2	Modular Jack	Minimum 750 mating cycle.	
3	Wire Termination	At least 200 termination cycle	
4	Flammability Rating	UL listed(UL 94 V-0)	
5	110 Blocks	Polycarbonate, 94-0 rated	
6	Conductor Gauge	22-26 AWG	
7	Plug Retention Force	At least 50 N	
8	Storage Temperature Range	-40°C to +70 °C	
9	Approval Standard	UL, ETL/Third Party 4 Connector channel verified to ANSI/TIA CAT 6	
10	ROHS Compliant	ROHS Compliant	

### 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	Length	At least 4 feet, 7 feet, 10 feet	
4	Flammability Rating	UL 94 V-0	
5	Max Current Rating	1.5 Amp	

6	Minimum Insulation Resistance	100 M Ohm	
7	Di Electric Strength	1000 VAC	
8	Minimum Contact Resistance	20 M Ohm	
9	Plug retention force Minimum:	50 N	
10	Safety Standard	ETL/3 <sup>rd</sup> Party	
11	Insertion Life	Minimum 750 Mating Cycle	
12	Jacket	LSZH	
13	Operating Environment Range:	Temperature range of -10 °C to +60 °C	
14	ROHS Compliant	ROHS Compliant	

### **CAT6 UTP Jack Panel 24 Port Specification**

SL No.	Details	Specification	Yes/No Deviation if any
1	Type	24-port modular,1U,Unshielded Twisted Pair, Category 6, TIA / EIA 568-C.2 &ISO/IEC 11801,Unloaded	
2	Port Arrangement	Configured as 6 port module with individually replaceable CAT-6 Jack	
3	Circuit Identification	Front of each module shall be capable of accepting 9 mm to 12 mm labels.	
4	Materials Housing	Poly Phenylene Oxide 94 V-0 rated	
5	Di electric withstand voltage, RMS	1000 VAC	
6	Current rating	1.5 Amp	
7	Insulation resistance Minimum:	100 M Ohm	

<b>8</b>	<b>Operating Temperature</b>	Temperature range of -10 °C to +60 °C	
<b>9</b>	<b>ROHS Compliant</b>	ROHS Compliant	

### **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.
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.

**Signature of the Tenderer**