

Indian Institute of Technology KANPUR

KALYANPUR, KANPUR U.P

KANPUR -208016

Computer Centre

Tender No: CC/IITK/09/1202 Dated 18.06.2020

Bid Submission Last Date 09.07.2020

TENDER DOCUMENT

FOR

3 years Rate Contract for Passive Items at Computer Centre, IIT Kanpur



BID DOCUMENT

Online bids (Technical & Financial) from eligible bidders which are valid for a period of 120 days from the date of Technical Bid opening (i.e. 10.07.2020) are invited for and on behalf of the Assistant Registrar, IIT, Kanpur for "3 years Rate Contract for Passive Items at Computer Centre, IIT Kanpur".

Name of Work	3 years Rate Contract for Passive Items at Computer Centre, IIT Kanpur
Date of Publishing	18.06.2020 (12:00 hrs)
Clarification Start Date and Time	18.06.2020 (12:00 hrs)
Clarification End Date and Time	26.06.2020 (16:00 hrs)
Queries (if any)	No queries will be entertained after clarification end date and time
Bid Submission Start Date	18.06.2020 (12:00 hrs)
Last Date and time of uploading of Bids	09.07.2020 (16:00 hrs)
Last Date and time of submitting , EMD and other documents	Nil
Date and time of opening of Technical Bids	10.07.2020 (16:00 hrs)
Date and time of opening of Financial Bids	Will be separately notified for Technically shortlisted/qualified bidders

Interested parties may view and download the tender document containing the detailed terms & conditions from the website http://eprocure.gov.in/eprocure/app

(The bids have to be submitted online in electronic form on www.eprocure.gov.in only. No physical bids will be accepted.)



INSTRUCTION FOR ONLINE BID SUBMISSION

The bidders are required to submit soft copies of their bids electronically on the Central Public Procurement (CPP) Portal ie http://eprocure.gov.in/eprocure/app, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

REGISTRATION

- (i) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: https://eprocure.gov.in/eprocure/app) by clickingon the link "Online Bidder Enrollment" option available on the home page. Enrollment on the CPP Portal is free of charge.
- (ii) During enrolment/ registration, the bidders should provide the correct/ true information including valid emailid & mobile no. All the correspondence shall be made directly with the contractors/ bidders through email-id provided.
- (iii) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- (iv) For e-tendering possession of valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) is mandatory which can be obtained from SIFY /nCode/eMudra or any Certifying Authority recognized by CCA India on eToken/ SmartCard.
- (v) Upon enrolment on CPP Portal for e-tendering, the bidders shall register their valid Digital Signature Certificate with their profile.
- (vi) Only one valid DSC should be registered by a bidder. Bidders are responsible to ensure that they do not lend their DSCs to others which may lead to misuse and should ensure safety of the same.
- (vii) Bidders can than log into the site through the secured login by entering their userID/ password and the password of the DSC/ eToken.

SEARCHING FOR TENDER DOCUMENTS

- There are various search options built in the CPP Portal to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, organization name, location, date, value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as organization name, form of contract, location, date, other keywords, etc., to search for a tender published on the CPP Portal.
- Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
- 3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

PREPARATION OF BIDS:

- (i) For preparation of bid Bidders shall search the tender from published tender list available on site and download the complete tender document and should take into account corrigendum if any published before submitting their bids.
 - After selecting the tender document same shall be moved to the 'My favourite' folder of bidders account from where bidder can view all the details of the tender document.
- (ii) Bidder shall go through the tender document carefully to understand the documents required to be submitted as part of the bid. Bidders shall note the number of covers in which the bid documents have to be submitted, the number of documents including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- (iii) Any pre-bid clarifications if required, then same may be obtained online through the tender site, or through the contact details given in the tender document.
- (iv) Bidders should get ready in advance the bid documents in the required format (PDF/xls/rar/dwf/jpg formats) to be submitted as indicated in the tender document/schedule. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- (v) Bidders can update well in advance, the documents such as experience certificates, annual report, PAN, EPF &



- other details etc., under "My Space/ Other Important Document" option, which can be submitted as per tender requirements. This will facilitate the bid submission process faster by reducing upload time of bids.
- (vi) Any information/ material/ document supplied along with this tender or after placement order should not be disclosed or copied.
- (vii) IITK may accept or reject any/ all tenders including the lowest tender without assigning any reasons whatsoever.
- (viii) Clarification: For any clarification: Please contact Head, Computer Centre, IIT Kanpur (headcc@iitk.ac.in)

SUBMISSION OF BIDS:

- (i) Interested authorized dealers/ distributors, who are willing to meet the stated requirement, are requested to kindly submit their competitive bids/ offers through e-procurement system of CPPP of Gol.
- (ii) Bidder should log into the site well in advance for bid submission so that he/ she upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay.
- (iii) While submitting the bids online, the bidder shall read the terms & conditions (of CPP portal) and accepts the same in order to proceed further to submit their bid.
- (iv) Bidders shall select the payment option as offline to pay the EMD and enter details of the DD/BC/BG/others.
- (v) Bidder shall digitally sign and upload the required bid documents one by one as indicated in the tender document.
- (vi) Bidders shall note that the very act of using DSC for downloading the tender document and uploading their offers is deemed to be a confirmation that they have read all sections and pages of the tender document without any exception and have understood the complete tender document and are clear about the requirements of the tender document.
- (vii) Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document. For the file size of less than 1 MB, the transaction uploading time will be very fast.
- (viii) If price quotes are required in XLS format, utmost care shall be taken for uploading Schedule of quantities & Prices and any change/ modification of the price schedule shall render it unfit for bidding.
 - Bidders shall download the Schedule of Quantities & Prices i.e. Schedule-A, in XLS format and save it without changing the name of the file. Bidder shall quote their rate in figures in the appropriate cells, thereafter save and upload the file in financial bid cover (Price bid) only.
 - The bidders are cautioned that uploading of financial bid elsewhere i.e. other than in cover 2 will result in rejection of the tender.
- (ix) Bidders shall submit their bids through online e-tendering system to the Tender Inviting Authority (TIA) well before the bid submission end date & time (as per Server System Clock). The TIA will not be held responsible for any sort of delay or the difficulties faced during the submission of bids online by the bidders at the eleventh hour.
- (x) After the bid submission (i.e. after Clicking "Freeze Bid Submission" in the portal), the bidders shall take print out of system generated acknowledgement number and keep it as a record of evidence for online submission of bid, which will also act as an entry pass to participate in the bid opening.
- (xi) Bidders should follow the server time being displayed on bidder's dashboard at the top of the tender site, which shall be considered valid for all actions of requesting, bid submission, bid opening etc., in the e-tender system.
- (xii) All the documents being submitted by the bidders would be encrypted using PKI (Public Key Infrastructure) encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology.
- (xiii) The successful bidder should submit Order Acceptance within 7 days from the date of order.
- (xiv) If an Indian agent is involved, the following documents must be enclosed:
 - a. Foreign principal's proforma invoice indicating the Commission payable to the Indian
 - b. Agent and nature of after sales service to be rendered by the Indian Agent.
 - c. Copy of the agency agreement with the foreign principal and the precise relationship between them and their mutual interest in the business.



- d. The enlistment of the Indian agent with Director General of Supplies & Disposals under the Compulsory Registration Scheme of Ministry of Finance.
- (xv) Conditional offers/ quotations shall not be accepted and are liable for rejection
- (xvi) A scanned copy of the certificate on company letterhead, stating that the bidder hasn't been blacklisted by any institution/ organization/ society/ company of the Central / State Government ministry/ department, or its public sector organizations during the last three years, with company stamp and signed by authorized signatory should also be uploaded.
- (xvii) The broad configuration / specification of the proposed purchase / work is given. Bidders are required to keep their proposal strictly as per the specification prescribed.

ASSISTANCE TO BIDDERS:

- (i) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contract person indicated in the tender. The contact number for the helpdesk is 0512-259-7796 between 10:30 hrs to 17:00 hrs.
- (ii) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24X7 CPP Portal Helpdesk. The 24 x 7 Help Desk Number 0120-4200462, 0120-4001002 and 0120-4001005. The helpdesk email id is support-eproc@nic.in



INSTRUCTION FOR e-PROCUREMENT

1. PREPARATION AND SUBMISSION OF BIDS:

- a. The detailed tender documents may be downloaded from http://eprocure.gov.in/eprocure/app till the last date of submission of tender. The Tender may be submitted online through CPP Portal http://eprocure.gov.in/eprocure/app
- b. The bidder should submit the bid online in two parts viz. Technical Bid and Financial Bid. Technical Bid should be upload online in cover 1 and Financial Bid in ".Xls" should be upload online in cover-2
- 2. <u>SUBMISSION OF THE BID</u>: All interested eligible bidders are requested to submit their bids online on CPP Portal: http://eprocure.gov.in/eprocure/app as per the criteria given in this document:
 - a. Technical Bid should be upload online in cover-1.
 - **b.** Financial Bid should be upload online in cover-2

Both Technical and Financial Bid covers should be placed online on the CPP Portal (http://eprocure.gov.in/eprocure/app).

3. **TECHNICAL BID:** Signed and Scanned copies of the Technical bid documents as under must be submitted online on CPP Portal: http://eprocure.gov.in/eprocure/app.

List of Documents to be scanned and uploaded (Under Cover-1) within the period of bid submission:-

- i. Scanned copy of Eligibility Criteria of OEM and Bidder as per Annexure-1
- ii. Scanned copy of Compliance sheet as per Annexure-2.
- iii. Scanned copy of Organization Declaration Sheet as per Annexure-3
- iv. Experience Copy of the Purchase order/ Competition.
- v. OEM Authorisation Letter.
- vi. Scanned copy of Technical supporting documents in support of all claims.

Please note that no indication of the rates/amounts be made in any of the documents submitted with the TC-BID.

4. Financial Bid

- **a.** The currency of all quoted rates shall be Indian Rupees. All payment shall be made in Indian Rupees.
- b. In preparing the financial bids, bidders are expected to take into account the requirements and conditions laid down in this Tender document. The financial bids should be uploaded online as per the specified ".XIs" format i.e. Price Biin Excel sheet attached as '.XIs' with the tender and based on the scope of work, service conditions and other terms of the Tender document. It should include all costs associated with the Terms of Reference/Scope of Work of the assignment.
- c. The Financial Proposal should be inclusive of all applicable taxes, duties, fees, levies, and other charges imposed under the applicable laws. The rates quoted in the Tender are inclusive of all applicable taxes, duties etc. except service tax. The service tax component shall be reimmersible by the department after receipt of paid challans etc. if applicable.

5. Last Date for Submission of Tender:

a. Online bids complete in all respects, must be submitted on or before the last date and time



specified in the schedule of events.

b. The IIT, Kanpur may, at its own discretion, alter/extend the last date for submission of tenders.

6. Bid Validity

- **a.** All the Bids must be valid for a period of 120 days from the last date of submission of the tender for execution of Contract. However, the quoted rates should be valid for the initial/ extended period of the Contract from the effective date of the Contract. No request will be considered for price revision during the original Contract period.
- **b.** A bid valid for a shorter period shall be declared as non-responsive.
- c. In exceptional circumstances, prior to expiry of the original time limit, the IIT may request the bidders to extend the period of validity for a specified additional period beyond the original validity of 120 days. The request and the bidders' responses shall be made in writing. The bidders, not agreeing for such extensions will be allowed to withdraw their bids without forfeiture of their Bid Security.

7. Modification / Substitution/ Withdrawal of bids:

- a. No Bid shall be modified, substituted or withdrawn by the Bidder after the Bid's due Date.
- **b.** Any alteration/ modification in the Bid or additional information supplied subsequent to the Bid's due Date, unless the same has been expressly sought for by the Authority, shall be disregarded.
- 8. Rejection of the Bid: The bid submitted shall become invalid and tender fee shall not be refunded if:
 - a. The bidder is found ineligible.
 - b. The bidder does not upload all the documents as stipulated in the bid document.



Tender Document Department of Computer Centre Indian Institute of Technology Kanpur Kanpur (UP) 208016 India

Enquiry Date: 18.06.2020 Enquiry No. CC/IITK/09/1202

Online quotations are invited for 3 years Rate Contract for Passive Items at Computer Centre, IIT Kanpur

A. The detailed requirements of the passive items is described below:

S. No.	Description	Quantity*	UOM
1	Cat 6 Cable, 305m Bundle	500	Вох
2	I/O Cat 6 RJ 45 Jack	6000	Nos
3	I/O Cat 6 RJ45 Face Plate Simplex	3000	Nos
4	I/O Cat 6 RJ45 Face Plate Duplex	200	Nos
5	CAT6 UTP patch Cord 4Ft (Blue, Yellow, Red & Green)	3000	Nos
6	Cat 5E Cable, 305m Bundle	50	Вох
7	UTP Patch Panel 24 Port unloaded multipurpose for Cat6 and Cat6A Jack	100	Nos
8	UTP Cat 6A Cable, 305 meter Bundle	20	Вох
9	I/O Cat 6A RJ 45 Jack	100	Nos
10	Cat 6A, 1 Mtr. (Blue, Yellow, Red & Green)	10	Nos
11	Cat 6A, 2 Mtr. (Blue, Yellow, Red & Green)	10	Nos
12	6 Core, Single Mode, Armored Fiber Cable	2000	Mtr
13	24 Core, Single Mode, Armored Fiber Cable	2000	Mtr
14	Fully Loaded LIU 24 Port.	5	Nos
15	2m, SC-LC Single Mode Fiber Patch Cord	10	Nos
16	3m, SC-LC Single Mode Fiber Patch Cord	10	Nos

^{*}Estimated Quantity that will be purchased over a period of 3 years

B. Clarification:

For any clarification: Please contact DDIA, Computer Centre, IIT Kanpur (ddia@iitk.ac.in)

C. Final Decision Making Authority:

The decision of the Director, IIT Kanpur will be binding on all bidders.

D. Disclaimer:

- 1. Information disclosed under and in accordance with the tender document will not constitute as an offer, also the acceptance of responses to this tender cannot be considered as a binding contract.
- 2. Applicants are solely responsible for all expenses associated with responding to this tender.
- 3. IITK reserves the right to annul the tender process at any time, without thereby incurring any liability to the affected bidders or specifying the grounds for the action.



E. Legal

- If any dispute, difference, question of disagreement or matter, whatsoever, before or after completion or abandonment of work, hereafter arises between the parties, as to the meaning, operation or effect of the contract or out of or relating to the contract or breach thereof, the same shall be referred to a Sole Arbitrator to be appointed by the Director of the Institute at the time of dispute.
 - a. The venue of the arbitration shall be at Kanpur.
 - b. Subject to as aforesaid, the provisions of the Arbitration and Conciliation Act. 1e996 and any statutory modifications or re-enactment thereof and rules made there-under and for the time being in force, shall apply to the arbitration proceedings under this clause.
- 2. The contract shall be governed by and construed according to the laws in force in India. The Parties shall hereby submit to the jurisdiction of the courts situated at Kanpur.

Terms and Conditions Governing the Contract

- 1. The rates are to be quoted by the bidders in Indian Rupees only and payment shall be made to successful bidders in Indian Rupees only. Any statutory applicable taxes such as applicable Tax, etc. should be mentioned separately in the Financial Bid. However, quote should be inclusive of all other levies, statutory taxes and charges such as Octroi, Packaging & Forwarding charges etc. and should be delivered at the premises. All prices shall be fixed and shall not be subject to escalation of any description. The rates must be quoted strictly as per the 'Financial Bid Format' provided.
- 2. The time of delivery including testing and handing over in satisfactory condition is the essence of the contract and the shipment should be effected as per the schedule. In the event of part supply, IITK shall withhold the entire payment until the whole of the supply as per the order is delivered. In case the delivery schedule is not stipulated as essential criteria, Contractor may indicate the period of delivery required for them.
- 3. If the completion of systems/ components is delayed for reasons of force majeure such as acts of God, Acts of Public enemy, acts of Government, fires, floods, epidemics, quarantine restrictions, illegal strikes and freight embargoes, the Contractor shall within 3 days from the date of such occurrence, give notice to IITK in writing of his claim for extension of delivery period. IITK on receipt of such notice may agree to extend the Contract delivery date as may be reasonable but without prejudice to other terms and conditions of the contract. Unless the extended delivery period is agreed by IITK in writing, contractor cannot claim the extension of delivery time as a matter of right. IITK shall have the right to either cancel/ extend the order validity/ levy LD as appropriate.
- 4. If the Contractor shall fail to deliver the systems/ components within the time specified in the Contract, IITK shall recover from the Contractor as liquidated damages a sum of 0.5% of the contract price of the undelivered systems /components for each week of delay (or) part thereof. The total liquidated damages shall not exceed 5% of the contract price of the unit or units so delayed. Systems/ components will be deemed to have been delivered only when all essential components parts are also delivered. If any essential components are not delivered in time, the entire system / components will be considered as delayed until such time the missing parts are delivered.
- 5. In general, all supplies are to be delivered as per the schedule of the contract only. In exceptional circumstances, part supply of the items may be accepted upon the recommendation of end-user. However, payment will be effected as stipulated in order/ contract.



- 6. The Goods supplied under the Contract shall be fully insured against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery.
- 7. If the contractor fails to deliver the stores or any instalment thereof within the period fixed for such delivery or at any time repudiates the contract before expiry of such period, IITK is entitled to cancel the contract and source purchases from third parties the stores not delivered at the risk and cost of the defaulting contractor.
- 8. The Contractor warrants that the Goods supplied under this Contract are new, unused, of the most recent or current models and those they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Contractor further warrants that all Goods supplied under this Contract shall have no defect arising from design, materials or workmanship (except when the design and/ or material is required by IITK's Specifications) or from any act or omission of the Contractor, that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination.
- 9. IITK does not make ANY ADVANCE PAYMENT. 100% on delivery.
- 10. The price shall include but not limited to:
 - a. Costs of goods / services covered in this contract.
 - b. Taxes and duties
 - c. Transportation and packing cost
 - d. Cost of Installation, testing, commissioning and handing over of goods
 The Bidder shall indicate on the appropriate price schedule form, the unit prices and total bid prices of the goods he proposes to supply under the contract strictly as per price bid format of tender.
- 11. The Bidder shall have to submit a copy of GST Registration certificate along with quotation (if applicable) for claiming the above.
- 12. In respect of GST as per notification No.45/2017 central tax (Rate) dated 14.11.2017 and Notification No. 47/2017-Integrated Tax (Rate) dated 14.11.2017 and G.O.(MS) No.161 CT&RD dated 14.11.2017. The GST is payable by IITK at 5% only against the tariff rate. Necessary exemption certificate will be issued by IITK for claiming the benefit of exemption. In respect of Import, the custom duty at concessional rate of 5.5% is only payable by IITK under notification no.51/96 customs dated 23.07.1996 and 43/2017 customs dated 30.06.2017. High Sea Sale also acceptable by the IIT Kanpur the No other tax is payable.
- 13. In the event of any dispute, difference, interpretation or application relating to this agreement arises, the same shall be settled amicably by the parties. In case the dispute or differences could not be settled amicably, the same shall be referred for adjudication through Arbitration by an Arbitrator to be appointed by the Director, IITK. The Arbitration shall be concluded in accordance with the provisions of Arbitration & Conciliation Act, 1996 or any statutory modifications or re-enactment thereof and the rules made their under and for the time being in force shall apply to the arbitration proceedings. Venue of such arbitration shall be at Lucknow. The language of arbitration proceedings shall be English. The Arbitrator shall make a reasoned award (the "award"), which shall be final and binding on the parties. The cost of the arbitration shall be shared equally by the parties to the contract. However, expenses incurred by each party in connection with the preparation, presentation etc., shall be borne by each party.
- 14. The bidder shall furnish, as a part of his bid, documents establishing the bidder's eligibility to bid and his qualification to perform the contract if his bid is accepted. The bidder must possess PAN No. and any other registration to claim the statutory levies.



- 16. The bidder is qualified only when he is the original manufacturer or established dealer with original manufacturer's authorization letter to quote, sell and service the products offered as per the prescribed format in our web site along with agency agreement.
- 17. In a tender, either the Indian agent on behalf of the Principal / OEM or Principal / OEM itself can bid but both cannot bid simultaneously for the same item / product in the same tender. If an agent submits bid on behalf of Principal / OEM, the same agent shall not submit a bid on behalf of another Principal / OEM in the same item / product. In case a bidder not doing business within India, he shall furnish the certificate to the effect that the bidder is or will be represented by an agent in India equipped and able to carry out the supply, maintenance, repair obligations etc. during the warranty and post warranty period or ensure a mechanism at place for carrying out the supply, maintenance, repair obligations etc. during the warranty and post warranty period. OEM also shall provide agency agreement and indicate agency commission payable to make remitting in INR.
- 18. The Contract is for 3 Year during this period the quantity may be increase or decrease. The contract period also may increase after 3 Years as per the mutual understanding between Customer and Bidder.
- 19. IIT Kanpur reserve right to Change the Brand or Cancel the RC if the Passive Material is not satisfactory performance wise.





Eligibility Criteria of OEM and Bidder:

Eligible Criteria for OEM

S.No.	<u>Description</u>	Compliance Yes/No	Remark
1	The OEM of Passive Network Components should be present in the India last 20 Year. (Document proof Required- Proof of Incorporation should be attached)		
2	25-year Performance warranty; Warranty to cover Bandwidth of the specified and installed cabling system		
3	Should have Technical / Telephonic support center in India		
4	OEM must have ISO 9001:2008, ISO 9001:14001.		
5	Factory Test report have to be provided for the product during supply.		
6	All the components/raw material used must be RoHS verified		
7	OEM should have manufacturing Unit and product design & Development center in India.		
8	OEM should have at least two dedicated Pre sales manpower in India for after sales support		
9	Only Premium Brand and No Class B Products should be quoted		
10	The entire passive components Copper & Fiber should be from single OEM of one make.		

Eligible Criteria for Bidder

S.No.	<u>Description</u>	Compliance Yes/No	Remark
1.	The bidder must be a reputed manufacturer (OEM) or his authorized System Integrator of the type of products offered. In case of System Integrator, a Letter of Authorization from OEM, specific to the tender should be enclosed. The bids received without authority are liable to be rejected.		
2	The bidder should have at Least 5 Year experience in the field LAN Networking. in IIT's/ Central University, Central Government & PSU's Documentary proof in this regard should be submitted		
4	The bidder must enclose a copy of complication certificate / Purchase Order having successfully executed work of Passive Items. Bidder have at least (One work) of 3000 Nodes or (Two work) of 2000 Nodes or (Three work) of 1000 Nodes. each in IIT's/ Central University, Central Government, Government & PSU's for last 5 Years. certificate		
5	The Bidder Should ISO Certified 9001:2015, 27001:2013 & ISO 20000- 1:2011 of Quality Management System, Information Security Management System and Information Technology service Management.		
6	The Bidder shall provide the Registration number GST/Sales Tax / Service Tax /PAN /TIN - Registration number. (Copy uploaded)		
7	The Bidder should have ESI and EPF Certificate / registration no. (irrespective of employee strength)		



8	Bidder should have minimum 5 years' presence in India. (Attach Company Registration Certificate). (Proof uploaded)	
9	Bidder should have minimum 1.5 Cr. net worth in last financial year 2018- 19 (Attach CA certificate).	
10	Bidder should have Solvency Certificate of Rs. 1 Cr. (Attach Bank Certificate)	
11	Bidder should have minimum Rs.10 Cr. Average Turnover for last 3 years 2016-17, 2017-18, and 2018-19. (Attach CA certificate and Balance sheet & P&L Account).	
12	Bidder should offer for passive items of same make/ brand.	

Note:

- **1.** Bidder should index the entire documents according to item list.
- 2. Please don't upload unnecessary documents or bulk documents as a single document.
- **3.** Name each document with the same name which is asked, so that it can be easily trackable. (For example "CA Certificate" will be named as "CA Certificate.pdf")

(Signature of the Tenderer)
Name:
Seal of the Company:





COMPLIANCE SHEET

	Те	chnical Specification	Compliance Y/N
1.	CAT 6 4 Pair Cable		
1	Туре	Unshielded twisted pair cabling system, TIA / EIA 568-C.2 Category 6 Cabling system, CM/CMR rated cable	
2	Network support	Supports ultrahigh speed data networks such as Gigabit Ethernet (1000 Base-T and 1000 Base-TX) and beyond.	
3	TIA / EIA 568-B.1	ETL Verified, UL Listed and UL channel verified- All three Certificates are mandatory	
4	IEEE 802.3ab	Zero-bit Error, ETL verified	
5	Warranty	25-year systems warranty; Warranty to cover Bandwidth of the specified and installed cabling system, and the installation costs. Site certificate must be issued by OEM	
6	to be provided along with	Attenuation, Pair-to-pair and PS NEXT, ELFEXT and PSELFEXT, Return Loss, ACR and PS ACR for 4-connector channel	
7	IMIANIITACTIIRER	All passive cabling must be from same OEM (UTP and Fiber)	
8	Conductors	23 AWG solid bare copper	
9	Insulation	Polyethylene	
10	Approvals	UL Listed and UL Channel verified ETL verified to TIA / EIA Cat 6	
11	Frequency tested up to	500 MHz minimum	
12	Packing	Box of 305 meters	
13	Impedance	100 Ohms + / - 15 ohms	
14	Performance characteristics to be provided along with bid	Attenuation, Pair-to-pair and PS NEXT, ELFEXT and PSELFEXT, Return Loss, ACR and PS ACR	
15	Delay Skew:	45ns Max	
16	Impedance:	100 ± 15 Ohms	
17	Current Rating:	1.5 A Max	
18	Conductor DC Resistance:	66.5Ω/km	
19	Voltage:	150VAC	
20	Propagation delay:	535ns/100m @250MHz	
21	Mutual Capacitance:	5.6nF/100m Nominal	
22	Insulation Resistance:	500 MΩ Minimum	
23	Dielectric Strength:	1000 V RMS	
24	Contact Resistance:	10 mΩ Max	



1	Features and Benefits		
_		exceed the channel specifications of Amendment 1	
	_	EA and ANSI/TIA-568-C.2 Category 6	
	Features pointed IDC towers	to speed termination and enhance cable retention	
	Dual color-coding allows for	568 A/B wiring configuration	
	Can be terminated using indu	ustry standard punch-down tools	
	RJ-11 compatible		
	Moulded category identificat icons	ion on I/O face as well as optional port identification	
	USOC Wiring Sequences Avai	ilable	
2	Dust Proof	RJ45 Jack should be supplied with Cap or Shutter to avoid Dust. If the dust cover not available on faceplate.	
3	RJ45 I/O Compatibility	Individual Compatible RJ45 Jack	
		Pointed IDC Tower on RJ45 Jack for easy termination	
4	Mechanical Characteristics		
	Plastic Housing:	Thermoplastic UL94V-0 rated or equivalent	
	Operating Life:	Minimum 750 insertion cycles	
	Contact Material:	Copper Alloy	
	Contact Plating:	50μ" Gold/100μ" Nickel	
	Contact Force:	100g minimum	
	Plug Retention Force:	11 lbf minimum	
5	IDC Connector		
	Plastic Housing:	Thermoplastic UL94V-0 rated or equivalent	
	Operating Life:	Minimum 20 re-terminations	
	Contact Material:	Copper Alloy	
	IDC Contact Plating:	Tin/Lead Plate	
	Wire Accommodation:	22-24 AWG solid	
6	Electrical Characteristics		
	Interface Resistance:	20 milliohms	
	Initial Contact Resistance:	2.5 milliohms	
	Insulation Resistance:	>100 Mega ohms	
7	Certification	Should be covered by UL/ETL certification program.	



3.	Faceplate Single or Duplex without Gang Box	
1	Features	
	Single square plate, 86mmx86mm,	
	Write on labels in transparent plastic window – supplied with plate	
	Screw hole covers – to be supplied with plate, Plug in Icons – Icon tree – to be supplied with plate	
	Should be able to support variety of jacks – UTP, STP, Fiber, Coax etc.	
2	The either the faceplate should be with shutters or in case without shutters I/O should have provision with shutter	

4.	CAT 6 Patch cord (4 Feet) (B	lue, Yellow, Red & Green)	
1	Туре	Cat 6 U/UTP 4 feet End-to-End Solution and are designed to support data networks for 10/100BASE-T and 1000BASE-T applications.	
2	Conductor size:	24 AWG stranded copper wire	
3	Nom. O.D.:	5.9mm	
4	Sheath:	LSOH	
5	Bend radius:	4X O.D.	
6	Boots	Transparent Plug with anti-snag slip on boots	
7	RJ45 Plug Standard	ISO/IEC 60606-7-4 and FCC 47 Part 68	
8	Sheath Standards	Fire Propagation compliant with CSA FTI, IEC 60332- 1, IEC 61034	
9	Operating temperature range:	-20°C to 60°C	
10	MIN operating life	: 750 insertion cycles	
11	RJ45 plug and boot material:	Clear polycarbonate	
12	Contact material:	0.35mm thick copper alloy	
13	Contact plating:	Selective gold	
14	RJ45 plug dimensions compliant with:	ISO/IEC 60603-7-4 and FCC 47 Part 68	
15	Commercial Standards	ISO/IEC 11801:2002/Amd 2:2010 Cat 6-, TIA-568-C.2 Cat 6	
16	Verified	UL/ETL Verified	
17	Fire Propagation Tests:	LSOH Sheath: CSA FT1, IEC 60332-1, IEC 61034	
18	Standard length available	0.5mt to 10 mt	



5.	Cat 5e UTP Cable	
1	Cat 5e UTP Cable (305 Mtrs./1000 feet per Box)	
2	Cable must conform to Cat. 5e as per TIA/EIA-568-C.2:2009	
3	The cable must feature a CMP-rated PVC sheath, colour other than white and red to make structural cabling logic cables distinguishable from other ICT installations.	
4	Attenuation, Pair-to-pair and PS NEXT, ELFEXT and PSELFEXT, Return Loss,	
5	RoHS Compliance. UL listed, CM rated cable	

Features
It must be made of cold rolled steel, Shall be unloaded individually replaceable Category-6A or cat6 I/O Jacks. Each jack for the jack panel must provide a Cap on jack panel or Shutter on I/O to avoid dust and contaminates entering the jack & for 100% dust free environment.
Have port identification numbers on the front of the panel.
Should have self-adhesive, clear label holders (transparent plastic window type) and white designation labels with the panel, with optional color labels / icons.
Each port / jack on the panel should be individually removable on field from the panel.
Should be supplied with metallic integrated rear cable management shelf as for cable strain relief and neat cable dressing.
Port numbering is provided on the front and rear of the panel



	General Features	
	Category 6A 4 pair U/FTP LSZH cable shall be compliant with TIA/EIA-568-C.2	
	Category 6A U/FTP cables shall extend between the work area location and its associated telecommunications closet and consist of 4 pair, 23 AWG, U/FTP LSOH cable jacket.	
	Should be ETL verified to TIA/EIA-568-C.2 Category 6A standard for 500MHz (ETL certificate to be enclosed along with the bid)	
	Screen: Each individual pair shall be enclosed in laminated Aluminium foil with drain wire.	
	Third party report of Full Cat6A Channel/Performance Test should be enclosed along with the technical bid.	
<u>)</u>	Mechanical Characteristics	1
	Construction: 4 pair U/FTP cable should be constructed of 4 individual screened pairs and drain wire.	
	Conductor: Solid Copper	
	Conductor Size:23 AWG	
	Insulator: Polyolefin	
	Jacket/ Sheath Type: LSOH (Low Smoke Zero Halogen)	
	NVP:75-77%	
	Screen: Each individual pair enclosed in laminated aluminium foil with drain wire.	
	Pulling Force: 50 N/mm² max	
	Capacitance: 40 pF/m nom. @1 KHz.	
	DC Resistance: 72 Ω/Km max.	<u> </u>
	Propagation Delay:514 + 36f½ nS/100m max @1-500 MHz	L
	Propagation Delay Skew: 45 nS/100 max @ 1-500 MHz	1
	Mean Impedance: 100Ω ± 6 @ 1-500 MHz	
	Resistance Unbalance: 2-5% max.	<u> </u>
	Coupling Attenuation: 45dB min @30-100 MHz 40-20 Log (f/100) @ 100-500 MHz	
	Outer Diameter: 7.0±0.4mm	
	Short term. bend radius:8 x OD mm	
	Long Term bend radius: 4 x OD mm	
	Weight LS0H per 500m reel:30kg	



8. CA	T6A SHIELDED RJ45 Jack	
1	Features	
	Category 6A Shielded Jack shall be specifically designed for high-speed data transmission and must be compliant with latest ISO/IEC	
	11801 A1.1 draft and ratified TIA/EIA 568-B.2-10 for the support of 10G BASE-T.	
	All information outlets for 22-24 AWG copper cable shall: Use insulation displacement connectors (IDC)	
	Allow for a minimum of 20 re-terminations & minimum 750 insertions without signal degradation below standards compliance limits.	
	Be constructed of high impact, flame-retardant thermoplastic and robust die cast zinc alloy housing plated with Nickel/Cu with icon options for better visual identification & the contact plating must be 1.25 Micrometres of Gold/Ni.	
	IO Cap or the shutter on the IO must be provided to avoid dust entering the jacks during idle condition both sides if faceplate don't have stutter	
	IDC posts should have mounts / pointed so that to avoid the untwisting of CAT6A cable at the time of punching / termination.	
	568A/B configuration	
	Color options in jacks should be available. White. Black ,blue and red	
	The jack should be UL/ETL certified.	
2	Mechanical Characteristic: IDC Connector	
	Plastic Housing must be Polycarbonate, UL94V-0 rated	
	The IDC Contact Plating must have Tin Matte Finish	
	Contact Force 100g minimum	
	Wire Accommodation: 22-24 AWG solid	



·	lue, Yellow, Red & Green)	
1	Features	
	Category 6A Equipment cords (Length – 1 & 2 Mtr	
	The work area equipment cords shall, be comply with TIA/EIA- 568-B.2-10 Commercial Building Cabling Standards Transmission Performance Specifications for 4 pair Category 6A Cabling.	
	Category 6A modular equipment cords: Shall be round, and consist of eight insulated 24 - 26AWG, stranded bare copper conductors, arranged in four color-coded twisted-pairs with aluminium/polyester shield and tinned copper drain wire	
	Equipped with modular 8-position modular shielded plugs on both ends, wired straight through with standards compliant wiring.	
	ROHS Compliant & should have 50 micro inches of gold plating over nickel contacts.	
	Patch cords colour shall be available in Blue, Grey/White, Red colours, with matching boots to help with circuit identification in cabinet.	
	Modular cords should include a moulded strain relief boot.	
	Should be covered by UL/ETL certification program.	
2	Mechanical Characteristic: Cable	
	Conductor size: 26 AWG stranded bare copper	
3	Mechanical Characteristic: Plug	
	OD 6.5mm for Patch Cords	
	Patch Cord Jacket: The jacket of the patch cord must be LSZH	
	Temperature range: -20°C to +60°C	
	Operating life: Minimum 750 insertion cycles	
	The screen material of pair must have aluminium/polyester shield with tinned copper drain wire in case of LSZH Patch cords & in case of Lockable patch cords the braid made must be of 0,08 mm wires	
	The Contact plating must be 1.25um Gold & The Contact Material should be Copper alloy	
	Plug dimensions & tolerances compliant with FCC Part 68 and IEC 60603-7	
4	Electrical Characteristics : Plug	
	Max voltage: 150 VAC (max)	
	Max current: 1.5A @ 25 °C	



	σαιτα στι ταυτ, 3, 123μπ, (Gel Free, OS2 Type Optical Fibre Cable			
1	Cable Type	Outdoor unit-tube gel free 9/125 micron OS2 type optical fiber. Cable containing up to 12 optical fibers in loose tube, sheathed in HDPE material, Protected by ECCS tape			
2	Fiber Type	Single Mode, 9/125 micron primary coated buffers, OS2 (IEC 60793-2-50, B1.3 and ITU T G652.d).			
3	Construction type				
	Tube:	Polybutylene, Terephthalate (PBT)			
	Tube colour:	White			
	Tube diameter	3.0/2.0 mm nominal OD/ID			
	No of fibres:	4/6/8/12			
	Fibre colour sequence	Blue, Orange, Green, Brown, Slate (Grey), White, Red, Black, Yellow, Violet, Pink, Aqua			
	Water Blocking	Water Swell able Yarn to prevent water ingress in loose tube			
	Armouring:	Corrugated Steel Tape Armour (ECCS Tape) Thickness > 0.125mm			
	Ripcord:	Polyester based yarns below armoured tape for easy ripping			
	Outer Sheath	HDPE out Jacket			
	Sheath colour	Black			
4	Standards				
	ISO.IEC 11801 - 2nd Edition, type OS2 ;AS/ACIF S008; AS/NZS 3080, ITU-T REC G 652D spec for Low Water Peak fibre ; supports 10G +data applications IEC 60793/60794-1 Tele Cordia (BELLCORE) GR 20 STDS, TIA/EIA 568-C.3, EIA455, RoHS Complaint				
5	Mechanical characteristics				
	Dimensions and Mass Overall Cable (Nominal):	9.0 MM			
	Mass (Nominal)	80 kg/km +- 10 %			
	Cable length	2 km ± 10%			
	Max. Bending Radius (during installation)	20 X Overall diameter			
	Max. Bending Radius (during full load):	10 X Overall diameter			
	Max. Tensile Strength-Short Term	1600N			
	Max. Crush Resistance- Short Term:	3000N/10 cm			
	Operating Temperature range	20°C ±70°C			



AND OF HOME		
	Cladding Diameter	125 + 1.0 μm
	Cladding Non circularity	< 1.0 %
	Core Non circularity	< 6.0 %
	Core-Cladding Concentricity error	< 0.6 μm
	Primary Coating Diameter- uncoloured	245 + 10 μm
	Primary Coating Diameter- coloured	250 + 15 μm
	Primary Coating Non Circularity	< 6.0 %
	Primary Coating Cladding Concentricity error	< 12.5 μm
	Proof Stress Level	> 0.7 (~ 1%) GPa
	Strip Force (Peak):	1.0 < F peak. strip< 8.9
	Zero dispersion wavelength	1310-8/+12 nm
	Zero dispersion slope	> 0.091 ps/(nm2.km)
	Fibre curl:	> 4 m-radius of curvature
	Cut-off wavelength	< 1260 nm
	Mode field diameter at 1310	9.3 ± 0.5 μm
	Mode field diameter at 1550	10.4 ± 0.8 μm
	Macrobending loss @ 1550 nm, 100 turns on a 60mm mandrel	<0.5 db
	Max (chromatic)dispersion:	
	@1270-1340nm	<5.3ps/nm-km
	@1285-1330nm	<3.5ps/nm-km
	Polarisation mode dispersion (PMD)	
	coefficient, cabled	< 0.5 ps/sq km)
	PMD Link Design Value	< 0.2 ps/sq km) RoHS Complaint
7	Electrical/Optical Characteri	'
,	Preserved, Optical Characters	Characteristics-Optical Performance
	Attance	Max. Attenuation (Cable with fibres) At 1310 nm: 0.35 dB/km
	Attenuation	At 1550 nm: 0.22 dB/km Max. Average Attenuation; At 1310 nm: 0.33 dB/km At 1550 nm: 0.21 dB/km



11. 24	Core Armoured Fibe	er Cable	
1	Cable Type	24-Core, Single mode Double HDPE Sheath, Armored, loose-	
	,,	tube, Multi Tube, armour, Gel Filled ANSI/TIA-568-C.3	
2	Fiber type	9/ 125, Telcordia(BELLCORE) GR 20 STDS Compliance	
3	No. of cores	24	
4	No of Tube	4	
5	@1310nm	< = 0.36 dB/Km	
6	@1550nm	<= 0.22 dB/Km	
7	Tensile rating	3500N	
8	Maximum Crush	6000N/10cm	
	resistance		
9	Operating	-10 Degree C to +60 Degree C	
	Temperature		
10	Armor	Corrugated Steel tape Armor for anti – rodent / anti termite	
11	Colour	Black	
12	Inner jacket /	High density polyethylene	
	Thinckness		
13	Outer jacket	High density polyethylene	
14	Secondary Buffer	Gel filled Loose Tube.	
	Material		
15	Loose Tube Outer	2 mm +/-0.1mm	
	Dia		
16	Cable Weight	174-185 +/- 20 KG per KM	
17	Min Bend	20 X Outer Diameter	
18	Marking	Identification marking at regular intervals of 1 meter	
19	Fiber Core	Fiber Core should be Silica Glass.	
20	Length of cable drum	standard factory length and can be supplied is max 4 Kms	



1	Fiber optic patch panel				
	The 1U Multi-Function Fibre Enclosure is a configurable rack mount unit for				
	storing and terminating incoming fibre cable.				
	The fibre enclosure has	been designed to accommodate various termination			
	types and adapter confi	gurations			
	The enclosure must, have a sliding drawer for ease of reconfiguring fibres,				
	incorporates a heavy du	ity ball bearing slide mechanism, allowing easy access to			
	fibres				
		t be an interchangeable front plate which can facilitates			
	upgrades as & when red				
		ld have locks to secure all the fiber terminations & must			
	have front cable management to properly route patch cords.				
	Fibre management enclosures that can be used as a wall mount enclosure for				
	• • • • • • • • • • • • • • • • • • • •	rack mount enclosure for integrated applications.			
2	Height 1 U	1.75 inches			
3	No. of fiber ports	The LIU must be upgradable up 96 ports LC Style			
4	Dimensions	482mm W x 254mm D x 43mm H(Rackmount)			
		305mm W x 254mm D x 43mm H (Wallmount			
5	Material				
	Powder coated Mild Steel				
	Rugged steel construction in graphite finish				
	Rear, side & base access for Incoming / Outgoing fiber cables				
6	Cable Management rings				
	Management rings within the system to accommodate excess fibre cordage				
	behind the through adapters and maintain fibre bend radius.				
7	Sliding cover	Panel cover is of slide out for easy maintenance			
8	Splice Tray	24Fiber Splice Tray of Moulded ABS material			
	should be supplied for the LIU.				

13. SC-L0	C,LC-LC OFC Patch Cords		
1	Type of connectors	SC or LC LSOH Jacket - Reduces toxic / corrosive	
2	Length	Minimum 1 meters	
3	Polishing	100% Factory polished and tested	
4	Insertion Loss	Less than 0.3dB per connector	
5	Attenuation	3.5dB/km @ 850 nm & 1.5dB/km @ 1300nm	
6	Standards	ROHS Compliant	
7	Jacket colour	Industry Standard Colour - OS1-Yellow	
8	Make and Type	SC to LC Duplex Fiber Optic Patch Cord 50/125 Micron	
9	Cable Sheath	LSZH	
10	Cable Diameter	1.6 mm	
11	Ferrule	Ceramic	
12	Buffer	Tight buffered	
13	Temperature Range	40 Degree C to +85 Degree C	
14	Buffer Diameter:	900μm	
15	Primary Coating:	245μm	



16	Strength Member:	Aramid Yarn	
17	Jacket Material:	LSOH IEC 61034-1 & 2, IEC-60332-1, IEC-60754- 1 & 2	

I have also enclosed all relevant documents in support of my claims, (as above) in the following pages.

Signature of Bidder

Name:		
Designation:		
Organization Name	e:	
Contact No.:		



Organization Letter Head DECLARATION SHEET

We,	hereby certify that all the information and data
furnished by our organization with regard to	this tender specification are true and complete to the best of
our knowledge. I have gone through the spe	ecification, conditions and stipulations in details and agree to
comply with the requirements and intent of $\boldsymbol{s}_{\boldsymbol{l}}$	pecification.
This is certified that our organization has be	een authorized (Copy attached) by the OEM to participate in
Tender. We further certified that our organization	ation meets all the conditions of eligibility criteria laid down in
	agreed to support on regular basis with technology / product
updates and extend support for the warranty.	
The prices queted in the financial hide are sub	sidized due to ecodomic discount given to UT Kennur
the prices quoted in the financial bids are sub	sidized due to academic discount given to IIT Kanpur.
We further specifically certify that our organi	zation has not been Black Listed/De Listed or put to any
	partment/ Public Sector Undertaking in the last three years.
, , ,	Ç
NAME & ADDRESS OF the authorized	
dealers/ distributors	
1 Phone	
2 Fax	
3 E-mail	
4 Contact Person Name	
5 Mobile Number	
	(Signature of the Tenderer)
	Name:
	Seal of the Company:



Appendix

TENDER ACCEPTANCE LETTER (To be given on Company Letter Head)

То,	Date:	
	- - -	
	- -	
Sub: Acceptance of Terms	s & Conditions of Tender.	
	Tender Reference No:	
Name of Tender / Work: -		
Dear Sir,		
1. I/ We have downloaded web site(s) namely:	d / obtained the tender document(s) for the above mentioned 'Tender/Work' fron	n the
as per your advertisemen	nt, given in the above mentioned website(s).	
No to (i	nat I / we have read the entire terms and conditions of the tender documents from including all documents like annexure(s), schedule(s), etc), which form pa / we shall abide hereby by the terms / conditions / clauses contained therein.	
	sued from time to time by your department/ organisation too have also been ta mitting this acceptance letter.	aken into
4. I / We hereby uncon corrigendum(s) in its total	nditionally accept the tender conditions of above mentioned tender docur	ment(s)
5. I / We do hereby decla Department/Public sector	are that our Firm has not been blacklisted/ debarred/ terminated/ banned by a r undertaking.	ny Govt
found to be incorrect/un notice or reason therefore	formation furnished by our Firm is true & correct and in the event that the infornatrue or found violated, then your department/ organisation shall without give or summarily reject the bid or terminate the contract, without prejudice to a g the forfeiture of the full said earnest money deposit absolutely.	ving any

Yours Faithfully, (Signature of the Bidder, with Official Seal)