



For IASST Website



**INSTITUTE OF ADVANCED STUDY IN SCIENCE AND TECHNOLOGY
(An Autonomous Institute under Dept. of Science and Technology, Govt. of India)
Paschim Boragaon, Vigyan Path, Garchuk, Guwahati-781035**

Notice Inviting Tender

NIQ. No: 266

Date: 10/12/2020

Sealed quotations are invited for empanelment of vendor for supply, installation and maintenance of LAN passive to the Institute of Advanced Study in Science and Technology (IASST), Guwahati. Bid document with other terms & conditions can be submitted with bid fee and notified EMD as per following:

Bid fee-DD (non - refundable)	Last Date and Time for submission of bids	Venue for Opening of Technical Bids
Rs.1000/-	07/01/2021 by 5 P.M	Office of the Registrar, IASST, Guwahati – 781035 Dt. 08/01/2021 at 11A.M

There will not be any separate notice for participation of bidder in the bid opening time.

Detail tender document will be available at IASST website <https://iasst.gov.in> and CPPP.

Registrar, IASST



1. Introduction

Institute of Advanced Study in Science and Technology (IASST) is a premier scientific research organization in the north-east region under the Ministry of Science and Technology, Govt of India, has its campus located at Vigyan Path, PaschimBoragaon, Guwahati, Assam 781035. IASST has Local Area Network (LAN) connectivity connecting different buildings in the IASST campus. The back-plane connectivity is on fibre (mostly single mode) and the nodes are connected through structured cabling using UTP cables and Cisco/ D-link catalyst switches. The LAN is used to provide network access to various PCs, printers, servers and other IT devices installed at various places of the campus. IASST, now invites offers from eligible vendors to provide LAN passive equipment, service for LAN cabling, LAN points etc as and when required.

2. Scope of Work

2.1 IASST wants to empanelled with a vendor for maintaining of the existing LAN which consist of around 700 node ports along with for the additional LAN work which may come time to time.

2.2 LAN management services:

2.2.1 Provision of Cabling (structured) when new nodes require to add in the existing network or shifting of nodes to new areas within the campus. The IASST's official will call the vendor's office about the LAN requirement. The vendor will accordingly, visit the site to assess the requirement. IASST will place the order to carry out the job. The order may be either through formal purchase order or through e-mail initially. IASST will pay for the material used like cables, connectors, patch panels, racks, I/O ports etc. as per rate contract value alongwith cable laying charges separately as per the actual with rate mentioned in the rate contract. IASST will not pay any additional call charges for carrying out the job.

2.2.2 Maintenance of the existing LAN passive components which includes but not limit to dressing of network racks, patch panel, jack panel maintenance, I/Os ports, patch cord, UTP cable, etc.



3. Terms of execution of work

3.1 When required, the vendor will deploy manpower for providing structured cabling connectivity on different part of the campus by laying Cat 6 cables, fibers, connectors, I/O ports, patch panels, racks and other passive network components as per the LAN layout plan of the IASST. As part of cable laying, if required, the vendor has to arrange for cutting the floor and wall for laying cables and for patching the floor openings.

3.2 The successful vendor is required to work in coordination with the other contractors like electrical, civil contractors for laying of cables etc.

3.3 The vendor will provide three-year warranty for the structured cabling done along with labelling and documentation.

4. Quality of components

4.1 During the contract period, vendor should supply all materials as mentioned in Bill of material confirming to quality standards i.e., Cat 6 cables, I/O Ports, Jack Panels, fiber cable, patch cards etc., should be of D-Link / MOLEX / KRONE / AMP make. The Rack should be of TATA/Valrack / WQ. Similarly, the conduits etc. should be ISI certified.

5. Forfeiture of bid security:

5.1 If a Vendor withdraws his offer during the period of validity of bid.

5.2 If the successful Vendor fails to accept and execute purchase orders during contract period.

5.3 If the successful vendor fails to execute the job assigned within the time given by the IASST.

5.4 If the successful bidder fails to maintained proper standard of the work.

5.4 The IASST's decision in the above cases will be final.



Notice Inviting Quotation

Eligibility Criteria of bidder(s):

- The Bidder should be a Manufacturer/authorized distributors/dealers of the respective product solution OEM (Manufacturer Authorization Form).
- If the bidder is an ISO certified Company, then documentary proof should be enclosed.
- The vendor should provide minimum of 5 references with contact details, where they have executed similar project installing minimum 500 nodes structural UTP cabling in last 3 financial years. At least 3 no in Govt Sector and in Northeastern region.(As in the format given in Annexure VI)
- The bid document, complete in all respect should reach the Registrar, Institute of Advanced Study in Science and Technology (IASST), Vigyan Path, PaschimBoragaon, Guwahati – 781035 on or before 07/01/2021 by 5 P.M. No bids after the last date shall be entertained.
- The Successful bidder/OEM should give 3 years' warranty from the day of installation to all the products they have supplied, except consumable.
- Penalty for delay in resolution - If selected bidder/OEM does not resolve any technical issues within 48 hours from the response time, a penalty of 0.5% of total cost per day (maximum 7 days) will be charged and deducted from the amount payable to bidder. For delay beyond the stipulated period, entire PBG will be forfeited.
- The bidder/OEM must be able to make presentation of their bids in front of an expert committee.
- The bidders must mandatory be able to ensure FOR IASST Guwahati.

Sequence of documents to be provided / enclosed in each copy of the bid documents:

1. The technical and price bid of the item should contain on the top advt. no, equipment name and these documents should be put inside a single envelop which will also contain on the top advt. no, names, last date of submission of quotation and content (how many envelop) inside.
2. Forwarding letter duly signed by the Authorized person.
3. Balance sheet with auditor's report for the last three years.
4. Latest Income Tax Clearance Certificates.
5. Copy of Certificate of Registration for GST.
6. Copy of PAN Card.
7. Proof of the authorized agent/distributor/supplier.
8. Sole Proprietary/sole manufacturer certificate for proprietary item.



9. Compliance sheet stating the deviation, if any, with reference to the terms and specifications of the equipment/ its accessories.
10. Certificate in support of the authorized agent/distributor/supplier.
11. List of similar equipment supplied by the firm with addresses and phone numbers of customers with satisfactory completion certificate/ working certificates.
12. Name and address of registered office, Head Office and Regional Office of the company with name and phone numbers of key persons.
13. Self-declaration at Annexure –I
14. Format of Manufacturer/Supplier/Distributor information at Annexure –II.
15. Technical Specification at Annexure – III
16. Financial Bid at Annexure – IV
17. Contract Form at Annexure –V
18. Acceptance of all clauses of bids specification duly signed page wise.
19. A summary sheet as per the format must accompany the financial bid and failure to do so may result in cancellation of the bid.

The committee of experts and the user scientists will have the right to recommend /reject purchase of equipment from a firm with proper justification and scientific logics.

**All the above documents except SL.No.16 should be enclosed with the Technical Bid.
Sl. No.16 to be submitted in a separate sealed envelope following instruction (1) above.**



Conditions forming part of NIQ

- Price of the equipment to be quoted for FOR at IASST only.
- Rate contract base prices, taxes (including sales tax, service tax, VAT etc., duties and levies excepting octroi, which will be at actuals) thereof against each component viz. Cables, I/O points etc. as per Bill of material.
- No Price Variations-** The rates shall be on a fixed price basis valid for three years. No upward revision in the price would be considered on account of subsequent increases in customs duty, excise tax, sales tax during the offer validity period. However, if there is any reduction on account of government levies, during the offer validity period, the same shall be passed on to the Bank. The rate contract for the passive components and services will be reviewed on yearly basis.
- The two bid systems should be followed for this NIQ. Under this system the bidder must submit their offer in two separate sealed envelopes marked clearly as Technical Bid and Commercial Bid on cover page of the envelope for each item quoted. Both the sealed envelope should be placed in a third larger envelope. The main envelope which will contain both the bids should be superscribed with NIQ enquiry no. and name of the equipment quoted for.
- The bidder shall be required to deposit **Rs.10,000/- (Rupees Ten Thousand only) as Earnest Money** along with the Technical Bid, through Bank Draft/ Fixed Deposit Receipt/Bank Guarantee drawn in favour of '**The Director, IASST**' payable at Guwahati. All quotation submitted without requisite amount of earnest money shall be rejected and their financial bid shall not be opened. The EMD will be returned to the bidders(s)/Agents whose offer is not accepted by IASST within one month from the date of placing of final order(s) to the selected bidder(s). In case of bidder(s) whose offer is accepted, the EMD will be returned on submission of Performance Bank Guarantee of equivalent amount valid for rate contract period. The IASST shall forfeit EMD, if the successful bidder fails to furnish the required Bank Guarantee. However, if the return of EMD is delayed for any reason, no interest/penalty shall be payable to bidders.
- The Technical Bids will be opened in presence of the bidders on the specified time and date. The bidder/their authorized agents who have responded to the quotation will be allowed to be present in the opening. The bidders are requested not to insert their quoted price in Technical Bid which will lead the quotation for summarily rejection.



- The Technical Bids will be evaluated to shortlist the eligible bidders. The Price Bids of only the short listed bidders shall be considered for further processing. Bidders whose Technical Bid is found acceptable and meets the eligibility requirements as specified in this NIQ will be informed about the date and time of the opening of Price Bid.
- The Successful bidder will have to submit within ten (10) days of the award of the contract, Performance Bank Guarantee equivalent to Rs.20000/- in the form of Bank Guarantee favoring the Director, IASST payable at Guwahati valid till completion of rate contract period.
- Bids would be rejected for award if it determines that the bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for the contract in question.
- The bids received after the deadline for submission of bids prescribed by the IASST will be rejected and such bids shall be marked as late and not considered for further evaluation.
- The IASST may, at its discretion, extend the deadline for submission of bids by amending the bid documents in accordance with clause relating to Amendment of Bidding documents in which case all rights and obligations of the IASST and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.
- The original and all copies of the bid shall be typed and shall be signed by the bidder or a person or persons duly authorized to bind the bidder to the Contract. All pages of the bid, except for un-amended printed literature, shall be initialed by the person or persons signing the bid. Further, over-writings on documents, if any should be supported by signatures.
- The bidders may submit their duly sealed Bid by post or by hand at the address specified in the NIQ not later than the time and date specified therein. In the event of the specified date for the submission of bid being declared a holiday for the IASST, the bid will be received up to the appointed time on the next working day.
- Issuance of bid documents should not automatically be construed that the bidder is considered qualified. The IASST Authority has the right to reject any bids on technical grounds without assigning any reason thereof.
- IASST shall not be responsible for any delay, loss or non-receipt of bid documents sent by post.
- Prices shall be quoted in Indian Rupees for offers received for supply within India and in their currency as per the Financial Bid format in case of offers received for supply from foreign countries. The prices quoted should be FOB, CIF or FOR, IASST destination.
- The IASST may open a letter of Credit or Wire Transfer in cases where it so decides. Any variation in price from the importer and manufacturer be indicated well in advance.



- The imported equipment should be quoted by the authorized supplier/dealer. In this case, commitment of after sales service with the period applicable should be clearly mentioned.
- Compliance sheet should indicate in details of meeting up of specifications required. The bidder can mention the additional features that exist in quoted products, if any, separately.
- Payment shall be made after delivery, successful installation, commissioning, and submission of Bank Guarantee and on submission of installation and warranty certificate duly signed and stamped by the authorized representative of the user department. **No advance payment will be made in case of equipment supplied by indigenous supplier.** In case of imported equipment 100% payment will be made through letter of credit for equipment costing USD 20000.00(or equivalent foreign currency) or more with payment terms 80% after shipment and balance 20% after satisfactory installation and commissioning along with submission of Performance Bank Guarantee. Equipment costing below USD 20000.00 (or equivalent foreign currency) will be made after installation through Foreign Demand Draft or through wire transfer.
- All taxes, if applicable, should be quoted separately, otherwise it would be presumed that the quoted prices are inclusive of taxes (please see Financial Bid format).
- Prices quoted should be FOB/FOR, IASST, Guwahati inclusive of all charges required to make the equipment functional to the satisfaction of the Institute, otherwise it would be presumed that the quoted prices are inclusive of all charges, if applicable.
- In case price for imported goods are quoted in FOR, the IASST will provide customs duty exemption certificate, if the import is made in the name of IASST and the supplier should submit original Bill of Entry in the name of the Registrar, IASST.
- Delivery should be within specified days mentioned in Purchase Order. If the equipment/instruments are not delivered within the stipulated time, the supplier shall be liable to pay a penalty of 1% of the total order value for each delay of 10 days or part thereof, and the amount will be deducted from the payment on account of purchase.
- The quotations must be valid for a minimum period of 90 days (three months) from the date of opening of the financial bids. No change in prices and change in terms and conditions will be permitted.
- All quoted items may carry brochure/catalogue/Pamphlets/Technical Literature and related documents.
- The supplier further warrants that the goods shall be free from defects arising from any act or omission of the supplier or arising from design, materials, and workmanship, under normal use in the conditions prevailing in India.



- The bidder should indicate clearly in their technical bid about the pre-installation requirements. Subsequently, before the consignment lands in IASST, the bidder shall confirm that the pre-installation requirements are sufficient for installation of the equipment.
- Installation, testing, commissioning of the equipment should have to be carried out by Technical experts of the company/supplier up to the satisfaction of user department of IASST.
- Free training shall be imparted to faculty/technical staff for operation, maintenance and troubleshooting at the user department of IASST.
- The vendor should be supplied with manuals containing technical network drawings, complete in all respects, so as to operate the LAN system without having any problem.
- The bidder may submit the proprietary certificate for the item(s), if applicable.
- In a bid, 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 bid.
- If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same bid for the same product.
- IASST reserves the right to purchase varying quantity of material, less or more.
- In the process of evaluation, comparison of bids, IASST reserves the right to reject any or all bids.
- In case replacement of a part becomes necessary during warranty period, the parts of the same make and same or better configurations as were originally there in the equipment shall be used. The supplier/vendor shall maintain details of the replacements and repairs carried out, if any, in any equipment/instrument in a separate document and produce the details as and when required by the user department of IASST. The cost of the parts will be borne by the supplier.
- In case of complaint regarding repairing/replacement of equipment/instrument within the warranty period, the supplier will provide repair/replacement immediately. In case of non-compliance or delayed compliance, supplier will be penalised with an amount mutually agreed upon and it would be deducted from the Bank Guarantee.
- The technical specification wherever given in the items' specification format is basic. The equipment/instruments may also be evaluated as per additional provisions and facilities.
- All corrigenda will only be notified on the IASST website.
- The bidder should make arrangement of insurance of the equipment against all risks of loss or damage from the date of shipment till such time it is delivered at IASST site in case of Rupee/Foreign currency terms.
- The successful bidder should transport their products through the Institute's empanelled Carrying and Forwarding Agent from CIF/CIP destination.



- The Director, IASST shall be the final Authority for settlement of any dispute and his interpretation of any Clause/term/condition(s) of this document shall be final.
- If any dispute arises out of or in connection with the contract, or in respect of any defined legal relationship associated therewith or derived there from, will be settled under the jurisdiction of Court of Law of Guwahati.
- The Institute is not bound to accept the lowest bidder.
- Purchase terms and condition as per General Financial Rule (GFR) will be applicable for all the purchases to be made.

Authorize Signature of the firm

Name:

Designation:



ANNEXURE-I

Self-Declaration to be given by the bidder

NIQ Reference No. & Date:

Bidder’s Name & Address:

Person to be contacted:

Designation:

Telephone No:

Fax No:

Email:

The Registrar,

Institute of Advanced Study in Science and Technology (IASST),

Vigyan Path, PaschimBoragaon, Guwahati – 781035.

We, the undersigned Bidder, having carefully read and examined in detail the Terms and Conditions, specifications and all bidding document in regard to the supply of equipments/instruments at Institute of Advanced Study in Science and Technology (IASST) and accept the same.

We also hereby declare that

- We have not been blacklisted/debarred by any Government/Undertaking.
- The rates quoted are not higher than the rates quoted for same item to any Government/Undertaking.
- The bid submitted by us is properly sealed and prepared so as to prevent any subsequent alteration and replacement.

For and on behalf of the firm
(Firms Name & Address)

(Signature of Authorized
Signatory)

Name:

Designation:

Phone No:

Seal:

Date: -----

Place: -----



ANNEXURE – II
FORMAT FOR OTHER INFORMATION

(To be filled in by the bidder)

Cost of Bid: Rs. 1000/- -----

Cash receipt/Bank Draft No: -----

Date: -----

Name of the firm: -----

Address: -----

Telephone/Mobile No: -----

Fax Number: -----

Email: -----

TIN/VAT/CST No: -----

Firm Registration No: -----

(If any)

PAN: -----

(Attach photocopy)

Details of Earnest Money (Bids Security) @ 2% of the estimated value of the equipment to be provided.

a) Bank Draft/Pay Order No.

b) Date.

c) For Rs.

d) Drawn On.

Place ----- (Signature of the authorized person)

Date -----

Name of the Contact person

Name of the Firm

Contact No.

Seal



ANNEXURE – III
TECHNICAL SPECIFICATION

Advertisement No:
Sl. No (as per NIQ):
Equipment Name:

Technical Specification (Annexure – III)

Passive Item				
SN	Item Name	Description	Make	Model/ Part No
1	UTP cable	4 pair, should confirm or exceed the EIA/TIA 568 B.2-1 , (CAT 6) standards for physical & electrical specifications, <i>Sheath Fire retardant PVC Compound (FRPVC) Flame Rating : 60 deg. C As per UL 1685 CM/CMR</i> , UL listed & Verified, Should be certified by independent test lab (ETL etc.) for Zero bit Error Rate Gigabit Ethernet Performance, 23 AWG solid bare copper, ROHS compliant 600MHz (Per Meter)		
2	UTP Cable (shielded)	Same as 1		



3	24 port Patch Panel	110 wiring block at rear end & RJ 45 jack on front panel, 19" rack mountable, should confirm or exceed the EIA/TIA 568 B standards for CAT 6, Metallic high strength & Height should be 1U , to save the Rack space., confirm EIA/TIA 568 B wiring pattern, should have routing rings & ties and labeling strips for identification, UL listed & Verified, Ports should be individually replaceable, ROHS complaint		
4	48 port Patch Panel	110 wiring block at rear end & RJ 45 jack on front panel, 19" rack mountable, should confirm or exceed the EIA/TIA 568 B standards for CAT 6, Metallic high strength & Height should be 1 U , to save the Rack space, confirm EIA/TIA 568 B wiring pattern, should have routing rings & ties and labeling strips for identification, UL listed & Verified., ROHS Compliant		
5	Wire Manager/ Patch Chord Minder panel	19 " rack mountable, Metallic high strength with metal jumper rings for routing cable assemblies, mounts to the front of 19" rack & 1 U height		
6	Information outlets (Single SMB)	Surface mount box with single RJ 45 socket, should confirm or exceed the EIA/TIA 568 B standards for CAT 6, provision for dust cover, labeling icons & strips, anchors for contact , UL listed & Verified, (per unit)		
7	Information outlets (Dual SMB)	Surface mount box with Dual RJ 45 socket, should confirm or exceed the EIA/TIA 568 B standards for CAT 6, provision for dust cover, labeling icons & strips, anchors for contact , UL listed & Verified, (per unit)		
8	Patch Cord	Should confirm or exceed the EIA/TIA 568 B standards for CAT 6, Factory molded transparent boots on RJ 45 plugs at both ends, Option for Straight & cross over cable with colour – Grey, Blue, Red & Green.		
A		A. Length – 1 meter		
B		B. Length – 2 meter		
C		C. Length – 3 meter		
D		D. Length – 5 meter		
E		E .Length – 10 meter		



9	RJ45 connector	(Per Unit)		
2 FIBRE COMPONENTS Multi Mode & Single Mode				
S No.	Item	Specifications	Unit Price (Rs.)(Ex VAT)	Remarks
1	Fiber Optic outdoor armoured cable (OM 3) Multi-mode (MM), 850nm laser optimized 50/125 micron, support 10G Ethernet upto 300 m	Multimode optical fiber cable, 850nm laser optimized 50/125 micron graded index, support IEEE 802.3ae 10 gigabit Ethernet standard to full 300m distance, support 10 Gb/s laser based application as well as LED based application, anti rodent, required for outdoor applications for direct burial, fiber should be protected inside jelly filled loose tube, armouring with acrylic coated good quality steel, should confirm or exceed the EIA/TIA 455, EIA/TIA 568-B.3, ISO 11801 & ICEA -640 standards for Fiber and cable performance specifications, Required in following configuration (Per Meter) 6 fibers,12 fibres		
2	Fiber Optic indoor cable (OM 3) Multi-mode (MM)	Multimode optical fiber cable, 850nm laser optimized 50/125 micron graded index, support IEEE 802.3ae 10 gigabit Ethernet standard to full 300m distance, support 10 Gb/s laser based application as well as LED based application, anti rodent, , , should confirm or exceed the EIA/TIA 455, EIA/TIA 568, ISO 11801 & ICEA -640 standards for Fiber and cable performance specifications with LSZH sheathing, required in following configuration (Per Meter) 6 fibers		
3	Fiber Optic outdoor armoured cable Single mode (SM)	Single mode optical fiber cable, 9/125 micron graded index, anti rodent, required for outdoor applications for direct burial, fiber should be protected inside jelly filled loose tube, armouring with acrylic coated good quality steel, should confirm or exceed the EIA/TIA 455, EIA/TIA 568, ISO 11801 & ICEA -640 standards for Fiber and cable performance specifications., Required in following configuration a)6 fibers b)12 fibers c)24 fibers		



4	Fiber Optic indoor Distribution cable Single mode (SM)	9/125 single mode fiber optic cables that are compliant to ISO/IEC 11801 with LSZH sheathing a)6 fibers b)12 fibers		
5	Optical Fiber connectors – SC	SC type, Epoxyless, Field mountable with required accessories & consumables, required for terminating (per unit) a) 50/125 micron MM fiber b) 9.2/125 micron SM fiber		
A		50/125 micron MM fiber		
B		9.2/125 micron SM fiber		
6	Optical Fiber connectors – LC	LC type, Epoxyless, Field mountable with required accessories & consumables, required for terminating (per unit) a) 50/125 micron MM fiber b) 9.2/125 micron SM fiber		
A		50/125 micron MM fiber		
B		9.2/125 micron SM fiber		
7	Optical Fiber Patch Cord, MM, SC to SC	Duplex, 50/125 micron MM fiber, SC connector at both end, LSZH Sheathing with factory mount ceramic connector at both end with length of a) 3 meter b) 10 meter c) 20 meter		
A		3 meter		
B		10 meter		
C		20 meter		
8	Optical Fiber Patch Cord, MM, LC to LC	Duplex, 50/125 micron MM fiber, LC connector on both end, LSZH Sheathing with factory mount ceramic connector at both end with length of a) 3 meter b) 10 meter c) 20 meter		
A		3 meter		
B		10 meter		
C		20 meter		



9	Optical Fiber Patch Cord, MM, SC to LC	Duplex, 50/125 micron MM fiber, LC connector on both end, LSZH Sheathing with factory mount ceramic connector at both end with length of a) 3 meter b) 10 meter c) 20 meter		
A		3 meter		
B		10 meter		
C		20 meter		
10	Optical Fiber Patch Cord, SM, LC to LC	Duplex, 9/125 micron SM fiber, LC connector at one end and FC connector on other end, with factory mount ceramic connector at both end with length of a) 3 meter b) 10 meter c) 20 meter		
A		3 meter		
B		10 meter		
C		20 meter		
11	Optical Fiber Patch Cord, SM, SC to SC	Duplex, 9/125 micron SM fiber, LC connector at one end and FC connector on other end, with factory mount ceramic connector at both end with length of a) 3 meter b) 10 meter c) 20 meter		
A		3 meter		
B		10 meter		
C		20 meter		
12	Optical Fiber Patch Cord, SM, SC to LC	Duplex, 9/125 micron SM fiber, LC connector at one end and FC connector on other end, with factory mount ceramic connector at both end with length of a) 3 meter b) 10 meter c) 20 meter		
A		3 meter		
B		10 meter		
C		20 meter		



13	Pigtails SC / LC OM3, Type 1 Meter	Pigtails SC type, compatible with fusion or mechanical splices, Field mountable with required accessories & consumables, for terminating (per unit)		
		a) 50/125 micron MM fiber		
		b) 9.2/125 micron SM fiber		
14	LIU, 12 fiber, 1 U/2U drawer style 19" Rack mount enclosure	Loaded with SC ceramic couplers & adaptor plates for 12 fibers 50/125 micron MM , 19" rack mountable metallic distribution enclosure slide & tilt drawer type 1U/2U, should have inbuilt / pre-installed splice tray with all clamps, harnessing rings, ties etc, compatible cable management rings/ bars should be provided		
15	LIU, 12 fiber, 1U/2U drawer style 19" Rack mount enclosure	Loaded with LC ceramic couplers & adaptor plates for 12 fibers 50/125 micron MM , 19" rack mountable metallic distribution enclosure slide & tilt drawer type 1U/2U, should have inbuilt / pre-installed splice tray with all clamps, harnessing rings, ties etc, compatible cable management rings/ bars should be provided		
16	LIU, 24 fiber, 1U/2U, 19" Rack mount enclosure	Loaded with SC ceramic couplers & adaptor plates for 24 fibers 50/125 micron MM, 19" rack mountable metallic distribution enclosure 1U/2U height with removable back cover, should have inbuilt / pre-installed splice tray with all clamps, harnessing rings, ties etc, Front & rear compatible cable management rings/ bars should be provided		
17	LIU, 24 fiber, 1U/2 U, 19" Rack mount enclosure	Loaded with LC ceramic couplers & adaptor plates for 24 fibers 50/125 micron MM , 19" rack mountable metallic distribution enclosure 1U/2U height with removable back cover, should have inbuilt / pre-installed splice tray with all clamps, harnessing rings, ties etc, Front & rear compatible cable management rings/ bars should be provided		
3		Supply & Installation		
S No.	Item	Specifications	Unit Price (Rs.)(Ex VAT)	Remarks



1	I	Route Survey & documentation for laying of UTP & Fibre cable along with detailed cable route diagram, rack position, cable length from each node to switch, identification of switch location with labels & routing marking as per standard and approved labelling plan etc on per node basis		
2	I	In building laying of UTP CAT 6 Cable (Shielded/Unshielded) (Per Meter)		
3	II	Removing of cable/duct (as per actual removed cable/duct) (Per meter)		
4		Supply of duct (per meter)		
	I	15X 15 mm		
	II	30X 25 mm		
	III	40X 25 mm		
5		Fixing of duct		



**ANNEXURE - IV
FINANCIAL BID**

Financial Bid (Annexure – IV)				
Passive Item				
SN	Item Name	Description	Unit Price (Rs.)(Ex VAT)	Re- marks
1	UTP cable	4 pair, should confirm or exceed the EIA/TIA 568 B.2-1 , (CAT 6) standards for physical & electrical specifications, <i>Sheath Fire retardant PVC Compound (FRPVC) Flame Rating : 60 deg. C As per UL 1685 CM/CMR</i> , UL listed & Verified, Should be certified by independent test lab (ETL etc.) for Zero bit Error Rate Gigabit Ethernet Performance, 23 AWG solid bare copper, ROHS compliant <i>600MHz (Per Meter)</i>		
2	UTP Cable (shielded)	Same as 1		
3	24 port Patch Panel	110 wiring block at rear end & RJ 45 jack on front panel, 19” rack mountable, should confirm or exceed the EIA/TIA 568 B standards for CAT 6, Metallic high strength & <i>Height should be 1U , to save the Rack space.</i> , confirm EIA/TIA 568 B wiring pattern, should have routing rings & ties and labeling strips for identification, UL listed & Verified, Ports should be indivi-		



		dually replaceable, ROHS complaint		
4	48 port Patch Panel	110 wiring block at rear end & RJ 45 jack on front panel, 19" rack mountable, should confirm or exceed the EIA/TIA 568 B standards for CAT 6, Metallic high strength & <i>Height should be 1 U , to save the Rack space</i> , confirm EIA/TIA 568 B wiring pattern, should have routing rings & ties and labeling strips for identification, UL listed & Verified., ROHS Compliant		
5	Wire Manager/ Patch Chord Minder panel	19 " rack mountable, Metallic high strength with metal jumper rings for routing cable assemblies, mounts to the front of 19" rack & 1 U height		
6	Information outlets (Single SMB)	Surface mount box with single RJ 45 socket, should confirm or exceed the EIA/TIA 568 B standards for CAT 6, provision for dust cover, labeling icons & strips, anchors for contact , UL listed & Verified, (per unit)		



7	Information outlets (Dual SMB)	Surface mount box with Dual RJ 45 socket, should confirm or exceed the EIA/TIA 568 B standards for CAT 6, provision for dust cover, labeling icons & strips, anchors for contact , UL listed & Verified, (per unit)		
8	Patch Cord	Should confirm or exceed the EIA/TIA 568 B standards for CAT 6, Factory molded transparent boots on RJ 45 plugs at both ends, Option for Straight & cross over cable with colour – Grey, Blue, Red & Green.		
A		A. Length – 1 meter		
B		B. Length – 2 meter		
C		C. Length – 3 meter		
D		D. Length – 5 meter		
E		E .Length – 10 meter		
9	RJ45 connector	(Per Unit)		
2 FIBRE COMPONENTS Multi Mode & Single Mode				
S No.	Item	Specifications	Unit Price (Rs.)(E x VAT)	Re-remarks
1	Fiber Op-	Multimode optical fiber		



	<p>tic outdoor armoured cable (OM 3) Multimode (MM), 850nm laser optimized 50/125 micron, support 10G Ethernet upto 300 m</p>	<p>cable, 850nm laser optimized 50/125 micron graded index, support IEEE 802.3ae 10 gigabit Ethernet standard to full 300m distance, support 10 Gb/s laser based application as well as LED based application, anti rodent, required for outdoor applications for direct burial, fiber should be protected inside jelly filled loose tube, armouring with acrylic coated good quality steel, should confirm or exceed the EIA/TIA 455, EIA/TIA 568-B.3, ISO 11801 & ICEA -640 standards for Fiber and cable performance specifications, Required in following configuration (<i>Per Meter</i>) 6 fibers,12 fibres</p>		
<p>2</p>	<p>Fiber Optic indoor cable (OM 3) Multimode (MM)</p>	<p>Multimode optical fiber cable, 850nm laser optimized 50/125 micron graded index, support IEEE 802.3ae 10 gigabit Ethernet standard to full 300m distance, support 10 Gb/s laser based application as well as LED based application, anti rodent, , should confirm or exceed the EIA/TIA 455, EIA/TIA 568, ISO 11801 & ICEA -640 standards for Fiber and cable performance specifications with LSZH sheathing, required in following configuration (<i>Per Meter</i>) 6 fibers</p>		



3	Fiber Optic outdoor armoured cable Single mode (SM)	Single mode optical fiber cable, 9/125 micron graded index, anti rodent, required for outdoor applications for direct burial, fiber should be protected inside jelly filled loose tube, armoring with acrylic coated good quality steel, should confirm or exceed the EIA/TIA 455, EIA/TIA 568, ISO 11801 & ICEA - 640 standards for Fiber and cable performance specifications., Required in following configuration a)6 fibers b)12 fibers c)24 fibers		
4	Fiber Optic indoor Distribution cable Single mode (SM)	9/125 single mode fiber optic cables that are compliant to ISO/IEC 11801 with LSZH sheathing a)6 fibers b)12 fibers		
5	Optical Fiber connectors – SC	SC type, Epoxyless, Field mountable with required accessories & consumables, required for terminating (per unit) a) 50/125 micron MM fiber b) 9.2/125 micron SM fiber		
A		50/125 micron MM fiber		
B		9.2/125 micron SM fiber		
6	Optical Fiber connectors – LC	LC type, Epoxyless, Field mountable with required accessories & consumables, required for terminating (per unit)		



		a) 50/125 micron MM fiber b) 9.2/125 micron SM fiber		
A		50/125 micron MM fiber		
B		9.2/125 micron SM fiber		
7	Optical Fiber Patch Cord, MM, SC to SC	Duplex, 50/125 micron MM fiber, SC connector at both end, LSZH Sheathing with factory mount ceramic connector at both end with length of a) 3 meter b) 10 meter c) 20 meter		
A		3 meter		
B		10 meter		
C		20 meter		
8	Optical Fiber Patch Cord, MM, LC to LC	Duplex, 50/125 micron MM fiber, LC connector on both end, LSZH Sheathing with factory mount ceramic connector at both end with length of a) 3 meter b) 10 meter c) 20 meter		
A		3 meter		
B		10 meter		
C		20 meter		
9	Optical Fiber Patch Cord, MM, SC to LC	Duplex, 50/125 micron MM fiber, LC connector on both end, LSZH Sheathing with factory mount ceramic connector at both end with length of a) 3 meter b) 10 meter c) 20 meter		



A		3 meter		
B		10 meter		
C		20 meter		
10	Optical Fiber Patch Cord, SM, LC to LC	Duplex, 9/125 micron SM fiber, LC connector at one end and FC connector on other end, with factory mount ceramic connector at both end with length of a) 3 meter b) 10 meter c) 20 meter		
A		3 meter		
B		10 meter		
C		20 meter		
11	Optical Fiber Patch Cord, SM, SC to SC	Duplex, 9/125 micron SM fiber, LC connector at one end and FC connector on other end, with factory mount ceramic connector at both end with length of a) 3 meter b) 10 meter c) 20 meter		
A		3 meter		
B		10 meter		
C		20 meter		
12	Optical Fiber Patch Cord, SM, SC to LC	Duplex, 9/125 micron SM fiber, LC connector at one end and FC connector on other end, with factory mount ceramic connector at both end with length of a) 3 meter b) 10 meter c) 20 meter		
A		3 meter		
B		10 meter		
C		20 meter		



13	Pigtails SC / LC OM3, Type 1 Meter	Pigtails SC type, compatible with fusion or mechanical splices, Field mountable with required accessories & consumables, for terminating (per unit)		
		a) 50/125 micron MM fiber		
		b) 9.2/125 micron SM fiber		
14	LIU, 12 fiber, 1 U/2U drawer style 19" Rack mount enclosure	Loaded with SC ceramic couplers & adaptor plates for 12 fibers 50/125 micron MM , 19" rack mountable metallic distribution enclosure slide & tilt drawer type 1U/2U, should have in-built / pre-installed splice tray with all clamps, harnessing rings, ties etc, compatible cable management rings/ bars should be provided		
15	LIU, 12 fiber, 1U/2U drawer style 19" Rack mount enclosure	Loaded with LC ceramic couplers & adaptor plates for 12 fibers 50/125 micron MM , 19" rack mountable metallic distribution enclosure slide & tilt drawer type 1U/2U, should have in-built / pre-installed splice tray with all clamps, harnessing rings, ties etc, compatible cable management rings/ bars should be provided		



16	LIU, 24 fiber, 1U/2U, 19" Rack mount enclosure	Loaded with SC ceramic couplers & adaptor plates for 24 fibers 50/125 micron MM, 19" rack mountable metallic distribution enclosure 1U/2U height with removable back cover, should have inbuilt / pre-installed splice tray with all clamps, harnessing rings, ties etc, Front & rear compatible cable management rings/ bars should be provided		
17	LIU, 24 fiber, 1U/2U, 19" Rack mount enclosure	Loaded with LC ceramic couplers & adaptor plates for 24 fibers 50/125 micron MM, 19" rack mountable metallic distribution enclosure 1U/2U height with removable back cover, should have inbuilt / pre-installed splice tray with all clamps, harnessing rings, ties etc, Front & rear compatible cable management rings/ bars should be provided		
3 Supply & Installation				
S No.	Item	Specifications	Unit Price (Rs.) (E x VAT)	Re- marks



1	I	Route Survey & documentation for laying of UTP & Fibre cable along with detailed cable route diagram, rack position, cable length from each node to switch, identification of switch location with labels & rout marking as per standard and approved labelling plan etc on per node basis		
2	I	In building laying of UTP CAT 6 Cable (Shielded/Unshielded) (Per Meter)		
3	II	Removing of cable/duct (as per actual removed cable/duct) (Per meter)		
4		Supply of duct (per meter)		
	I	15X 15 mm		
	II	30X 25 mm		
	III	40X 25 mm		
5		Fixing of duct		
	I	15X 15 mm		
	II	30X 25 mm		
	III	40X 25 mm		
6		Supply of PVC Conduit of OD size (per Meter)		
	I	20mm		
	II	32mm		
	III	40mm		
7		fixing of PVC Conduit of OD size (per Meter)		
	I	20mm		
	II	32mm		
	III	40mm		



8		Installation of Jack Panel & termination of UTP CAT 6 & 6A cable on Jack panel (12 port) (per port/node)		
9		Installation of Jack Panel & termination of UTP CAT 6 & 6A cable on Jack panel (24 port) (per port/node)		
10		Installation of Jack Panel & termination of UTP CAT 6 & 6A cable on Jack panel (48 port) (per port/node)		
11		Crimping of RJ 45 connectors per connector		
12		Installation & Termination of information outlets (including termination of CAT 6 & 6A cable on I/O) (per node)		
13		Testing of laid cables for the nodes (per node)		
14		Site certification for performance warranty of 20 years through OEM, Network Audit		
	i	up to 100 nodes		
	ii	up to 500 nodes		
	iii	up to 1000 nodes or above nodes		
15		In building laying of fiber in duct/conduit (per meter)		
16		Outdoor laying of fiber with (per meter)		
17		Excavation and resurfacing of the soil (depth 1 mtr) (per meter)		
18		Excavation and resurfacing of concrete (per meter)		



19		Excavations under road crossing & rail track without effecting the traffic (per meter)		
20		Supply and installation / fixing of 1" diameter GI pipe under ground and on surface (per meter)		
21		Supply and installation / fixing of 2" diameter GI pipe under ground and on surface (per meter)		
22		Supply and installation of 1.5" diameter HDPE PVC jacket for under ground laying (per meter)		
23		Supply and installation of 2" diameter HDPE PVC jacket for under ground laying (per meter)		
24		Supply and installation of 4" diameter HUME pipe for under ground laying (per meter)		
25		SC/LC connector termination on Fiber Optic Cable (with support of proper buffer tubing & termination of fibers in Fiber Termination/ Interconnection Unit with SC/LC coupler) per unit		
26		Supply and installation of buffer tubing kit		
27		Cable pulling pit made of reinforced concrete and brick walls with removable covers, (Cable Vault)		
28		Performance testing of laid Fiber Optic Cable for continuity, length & dB loss as per EIA/TIA-455-60 document for FO test procedures & Documentation of the results (per link)		



29		Installation and Termination of fiber termination/Interconnection unit with SC/LC Coupler (per Unit)		
30		Pigtail splicing per unit		
31		Fiber splicing per unit		
RACK				
32	19 " Rack, Wall mount 530 mm depth, 6 U height, Front glass / vented door (lockable) and side panel can open	Should confirm DIN 41494 & IEC 297 standard, Load bearing capacity of 40 Kgs, having following accessories 19 " AC power distribution channel with 5 & 15 Amp power Universal/Indian standard sockets & two fans with wall mounting hardware		
33	Installation of 6U Rack			
34	19 " Rack, Wall mount 530 mm depth, 9 U height, Front glass / vented door (lockable), and side panel can open	Should confirm DIN 41494 & IEC 297 standard, Load bearing capacity of 40 Kgs, having following accessories 19 " AC power distribution channel with 5 & 15 Amp power Universal/Indian standard sockets & two fans with wall mounting hardware		
35	Installation of 9U Rack			



36	19" Rack, Wall mounted, 530 mm depth, 12 U height, Front glass /vented door(lockable)	Should confirm DIN 41494 & IEC 297 standard, Load bearing capacity of 40 Kgs, having following accessories 19 " AC power distribution channel with 5 & 15 Amp power Universal/Indian standard sockets & spike suppressor, equipment mounting screws/hardware packets (2 nos), with two fan		
37	Installation of 12U Rack			
38	Dressing of 6U rack without accessories			
39	Dressing of 9U rack without accessories			
38	Dressing of 12U rack without accessories			

(Signature of the authorized person)
Name of the Contact Person
Name of the Firm
Contact No.



**ANNEXURE -V
CONTRACT FORM**

(To be filled by the successful bidder only)

THIS AGREEMENT is made on the ----- day of -----, 20----- between the Registrar, Institute of Advanced Study in Science and Technology (IASST), Vigyan Path, PaschimBoragaon, Guwahati – 781035 (hereinafter called “the Purchaser”) of the one part and ----- (Name of Supplier) of ----- (city and country of Supplier) (hereinafter called “the Supplier”) of the other part:

WHEREAS the Purchaser is desirous that certain equipment/instrument and after sales services viz, ----- (Brief Description of equipment/instrument and after sales services) and has accepted a bid by the Supplier for the supply of those equipment/instrument and after sales services for the sum of ----- (Contract Price in Words and Figures) (hereinafter called ‘the Contract Price”).

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. In consideration of the payments to be made by the IASST to the supplier as hereinafter mentioned, the Supplier hereby covenants with the IASST to provide the equipment/instrument and after sales services and to remedy defects therein in conformity with the provisions of the Contract in all respects.
3. The IASST hereby covenants to pay the Supplier in consideration of the supply of the equipment/instrument and after sales services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

Brief particulars of the equipment and after sales services which shall be supplied/ provided by the Supplier are as under:

SL. NO	BRIEF DESCRIPTION OF EQUIPMENT/INSTRUMENT AND AFTER SALES SERVICES	QUANTITY TO BE SUPPLIED	UNIT PRICE	TOTAL PRICE	DELIVERY TREMS



Annexure – VI: Experience statement

Experience in the relevant areas with the clients (Attach separate statement)

Sl. No.	Name of the Customer Organization	Year of Implementation	Scope of Work	Value of the work (In INR Lakhs)	Present status of the project

*****END*****