



भारतीय प्रौद्योगिकी संस्थान मद्रास चेन्नै 600 036
INDIAN INSTITUTE OF TECHNOLOGY MADRAS Chennai 600 036
 भंडार एवं क्रय अनुभाग
STORES & PURCHASE SECTION
 Telephone : (044) 2257 8288/8285/8287
 email ID - adstores@iitm.ac.in
IIT Madras GSTIN : 33AAAAI3615G1Z6



G. Chitrapavai
Deputy Registrar (Stores & Purchase)

Dated : 06.07.2018

Tender No. IITM/SPS /RC/Structure Network Cabling/002/2018-19/SPL

Dear Sirs,

On behalf of the Indian Institute of Technology Madras, Tenders are invited for the purchase of

“Structured Network Cabling for IIT Madras Campus under Rate Contract for a period of one year“

confirming to the specifications enclosed.

Tender Documents may be downloaded from Central Public Procurement Portal <https://etenders.gov.in/eprocure/app> Aspiring Bidders who have not enrolled / registered in eprocurement should enroll / register before participating through the website <https://etenders.gov.in/eprocure/app>. The portal enrolment is free of cost. Bidders are advised to go through instructions provided at “Help for contractors”. [Special Instructions to the Contractors/Bidders for the e-submission of the bids online through this eProcurement Portal].

Tenderers can access tender documents on the website (For searching in the NIC site, kindly go to Tender Search option and type ‘IIT’. Thereafter, Click on “GO” button to view all IIT Madras tenders). Select the appropriate tender and fill them with all relevant information and submit the completed tender document online on the website <https://etenders.gov.in/eprocure/app> as per the schedule attached.

No manual bids will be accepted. All quotation both Technical bid and Financial bid should be submitted in the E-procurement portal.

1	LAST DATE for receipt of Tender	:	26.07.2018 before 02.00 p.m.
	Date & Time of opening of Tender	:	27.07.2018 at 03.00 p.m.
A	Submission of Tender	:	<p>As per the directives of Department of Expenditure, this tender document has been published on the Central Public Procurement Portal URL: https://etenders.gov.in/eprocure/app</p> <p>The bidders are required to submit soft copies of their bids electronically on the CPP Portal, 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.</p> <p>More information useful for submitting online bids on the CPP Portal may be obtained at: https://etenders.gov.in/eprocure/app</p> <p>Both Technical Bid & Price Bid should be submitted separately in online CPP portal as per the specified format only. Right is reserved to ignore any tender which fails to comply with the above instructions.</p> <p>No manual bid submission is entertained.</p>
B	Instructions for online bid	:	<p>REGISTRATION</p> <p>i. Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal URL: https://etenders.gov.in/eprocure/app by clicking on “Online Bidder Enrollment”. Enrolment on the CPP Portal is free of charge.</p>

	submission		<ul style="list-style-type: none"> ii. As part of the enrolment process, the bidders will be required to choose a unique user name and assign a password for their accounts. iii. Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal. iv. Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / TCS / nCode / eMudhra etc.) v. https://etenders.gov.in/eprocure/app?component=%24DirectLink&page=DSCInfo&service=direct&session=T with their profile. vi. Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSCs to others which may lead to misuse. vii. Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / eToken.
Guidelines, Terms and Conditions of Tender			
C	Searching for tender documents	:	<ul style="list-style-type: none"> i. 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. ii. 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 Tender" folder. This would enable the CPP Portal to intimate the bidders through SMS / email in case there is any corrigendum issued to the tender document. iii. 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.
D	Preparation of bids	:	<ul style="list-style-type: none"> i. Bidder should take into account any corrigendum published on the tender document before submitting their bids. ii. Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please 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. Bidder, in advance, should prepare the bid documents to be submitted as indicated in the tender document / schedule and generally shall be in PDF / XLS formats as the case may be. Bid documents may be scanned with 100 dpi with black and white option. iv. To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, GSTIN Details, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Documents" area available to them to upload such documents. These documents may be directly submitted from the "My Documents" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.
			<ul style="list-style-type: none"> i. 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 date and time. Bidder will be responsible for any delay due to other issues. ii. The bidder has to digitally sign and upload the required bid documents

E	Submission of bids	:	<p>one by one as indicated in the tender document.</p> <p>iii. Bidder has to select the payment option as “Off-line” to pay the EMD as applicable. The original EMD DD has to reach IIT Madras on or before the closure date and time of the tender. If the DD is not received before the closure date and time the tender will be summarily rejected. The EMD document submitted physically to IIT Madras and the scanned copies furnished at the time of bid submission online should be the same otherwise the tender will be summarily rejected.</p> <p>iv. A standard BOQ format has been provided with the tender document to be filled by all the bidders. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. Bidders are required to download the BOQ file, open it and complete the detail with their respective financial quotes and other details (such as name of the bidder). If the BOQ file is found to be modified by the bidder, the bid will be rejected.</p> <p>v. The server time (which is displayed on the bidders’ dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.</p> <p>vi. The Tender Inviting Authority (TIA) will not be held responsible for any sort of delay or the difficulties faced during the submission of bids online by the bidders due to local issues.</p> <p>vii. The uploaded tender documents become readable only after the tender opening by the authorized bid openers.</p> <p>viii. Upon the successful and timely submission of bids, the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.</p> <p>ix. Kindly add scanned PDF of all relevant documents in a single PDF file of compliance sheet.</p>
F	Assistance to bidders	:	<p>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 contact person indicated in the tender.</p> <p>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 contact number for the helpdesk is [0120-4200462, 0120-4001002, 0120-4001005]</p>
G	General Instructions to the Bidders	:	<p>i. The tenders will be received online through portal https://etenders.gov.in/eprocure/app. In the Technical Bids, the bidders are required to upload all the documents in pdf format.</p> <p>ii. Possession of a Valid Class II/III Digital Signature Certificate (DSC) in the form of smart card/e-token in the company's name is a prerequisite for registration and participating in the bid submission activities through https://etenders.gov.in/eprocure/app</p> <p>iii. Digital Signature Certificates can be obtained from the authorized certifying agencies, details of which are available in the web site https://etenders.gov.in/eprocure/app under the “Information about DSC”.</p>
H	Opening of the tender	:	<p>The online bid will be opened by a committee duly constituted for this purpose. Online bids (complete in all respect) received along with scanned copy of EMD (if any) will be opened as mentioned at “Annexure: Schedule”. Bid received without EMD (if present) will be rejected straight way. The technical bid will be opened online first and it will be examined by a technical committee (as per the eligibility criteria, specification and requirement). The financial offer/bid will be opened only for the offer/bid which technically meets all requirements as per the specification.</p>

I	Earnest Money Deposit (EMD)	:	<p>i. EMD for Rs. 60,000/- has to be paid by means of DD only. The scanned copy of DD to be uploaded in the online portal and the original DD should reach us on or before the due date and time.</p> <p>ii. The original EMD DD should be sent either by REGISTERED POST ACKNOWLEDGEMENT DUE OR THROUGH MESSENGER. If the original EMD DD is sent through Messenger, the same has to be dropped in the TENDER BOX marked Stores & Purchase kept for this purpose in the REGISTRAR'S OFFICE (1st Floor of Administrative Building) on or before due date 26.07.2018 before 02.00 p.m.</p> <p>iii. If it is by post (Registered Post or Speed post only) the same should reach on or before due date 26.07.2018 before 02.00 p.m. otherwise it will be summarily rejected even if the scanned copy of the DD is enclosed in e-bid.</p> <p>iv. Demand Draft may be drawn in favour of "The Registrar, IIT Madras" payable at Chennai.</p> <p>The original EMD should be sent to: The Registrar INDIAN INSTITUTE OF TECHNOLOGY MADRAS CHENNAI- 600 036</p> <p>v. Performance Guarantee for Rs. 30,000/- has to be submitted in addition to above Rs. 60,000/- EMD by way of DD/Bank Guarantee by the successful bidder only.</p> <p>vi. Non submission of original EMD DD on or before the due date and time will result in rejection of the e-bid even if the proof of the DD attached in the e-bids submitted by the vendor.</p> <p>vii. The EMD will be returned to unsuccessful tenderer only after the tenders are finalized. In case of successful tenderer, it will be retained till the installation and completion of warranty period.</p>
J	Marking on Technical Bid	:	<p>i. The technical Specification for this tender is given in <u>Annexure A</u>. The tenderer shall go through the specification and submit the technical bid.</p> <p>ii. The Technical bid should be submitted in the proforma given as per <u>Annexure A</u> in pdf format only through online (e-tender). No manual submission of bid is entertained.</p> <p>iii. All technical bid should have the page-wise heading as "Technical Bid" and page no. in all pages with seal and signature of authorized signatory. The total no. of pages should be mentioned at the last page of the documents.</p> <p>iv. The technical bid should consist of all technical details along with catalogue/brochure and other technical, commercial terms and conditions.</p>
K	Marking on Price Bid	:	<p>i. Price bid should be submitted in the prescribed proforma Annexure – B as per BOQ in PDF format through e-tender only. No manual submission of bid is entertained.</p> <p>ii. Price bid should indicate item-wise price <u>for all the items</u> mentioned in the technical bid.</p>
2	<p>Preparation of Tender:</p> <p>a) You should quote your product as per our specification requirements by mentioning our requirements and your offer side by side and the rate should be in total as per our requirements. We will not make any calculation if you have mentioned the rates of items separately.</p> <p>b) The offer/bids should be submitted through online only in two bid system i.e. Technical Bid and Price Bid separately.</p> <p>The online technical bid will be first opened and evaluated. In the screening, the Vendor Eligibility Criteria and technical evaluations as per ANNEXURE – A will be evaluated. The Price bid of only those bidders whose vendor eligibility criteria and technical compliance are found to be adequate by the Committee will be opened.</p>		
3	<p>Signing of Tender:</p> <p>The Tender is liable to be rejected if complete information is not given therein or if the particulars and date (if any) asked for in the schedule to the Tender are not fully filled in or not duly signed/authenticated. Specific</p>		

	<p>attention is drawn to the delivery dates and terms and conditions enclosed herewith. Each page of the technical bid required to be signed and bears the official seal of the tenderers.</p> <p>If the application is made by a firm in partnership, it shall be signed (with seal) by all the partners of the firm above their full typewritten names and current addresses or alternatively by a partner holding power of attorney for the firm in which case a certified copy of the power of attorney shall accompany the application. A certified copy of the partnership deed along with current addresses of all the partners of the firm shall also accompany the application.</p> <p>If a limited company or a corporation makes the application, it shall be signed by a duly authorized person holding power of attorney for signing the application, in which case a certified copy of the power of attorney shall accompany the application. Such limited company or corporation may be required to furnish satisfactory evidence of its existence. The applicant shall also furnish a copy of the Memorandum of Articles of association duly attested by a Public notary.</p>
4	<p>Period for which the offer will remain open:</p> <ol style="list-style-type: none"> Firms tendering should note the period for which it is desired that their offers should remain open for acceptance. If the firms are unable to keep their offers open for the specified period they should specifically state the period for which their offers are being provided, however, the day up to which the offer is to remain open being declared closed holiday for the Indian Institute of Technology Madras, the offer shall remain open for acceptance till the next working day. Quotations qualified by such vague and indefinite expressions such as 'subject to immediate acceptance', 'subject to prior sale' will not be considered. The Tender shall remain open for acceptance/validity till: 120 days from the date of opening of the tender
5	<p>Prices:</p> <ol style="list-style-type: none"> The prices quoted must be nett. per unit as per the technical specification mentioned in Annexure B and must include all packing, delivery and installation charges and other statutory levies. The prices quoted by the Tenderer should be inclusive of GST and other statutory levies (and should be clearly stated to be so) which will be paid by the Purchaser/if legally leviable at the rate ruling on the date of supply as specified in the Acceptance of Tender. The percentage of tax etc. included in the price should be indicated in clear terms. If the inclusive price is not given, we will treat your offered rate as inclusive rate and comparison be made with others. If at the time of comparison of your offer without taxes etc. is happen to be lowest, you are bound to supply as per the offered rate, i.e. without taxes etc. Concessional GST : IIT Madras is eligible for concessional GST @ 5% on IGST and @ 2.5% for CGST and SGST as per Notification No. 45/2017 – Central Tax (Rate) Dated 14th November 2017 & Notification No.47/2017 – Integrated Tax (Rate) Dated 14th November 2017, for procurement of Equipments and Consumables for research purpose. At the time of Invoicing, please state the concessional GST accordingly. During the supply of item, a certificate to this effect will be issued to your firm. No price revision will be allowed during the rate contract period. You must give an undertaking to the effect that, in case of downward price movement during the Rate Contract period, the firm shall pass on the advantage to IIT Madras. Your quotation will be summarily rejected, if such undertaking does not accompany the quotation.
6	<p>Withdrawal of a Model quoted in the Rate Contract is acceptable ONLY IF accompanied by a certificate from the manufacturer to that effect. Correspondence in this connection must be addressed to Deputy Registrar (Stores & Purchase).</p>
7	<p>Payment: No Advance Payment will be made for Indigenous purchase. Payment will be made only after supply and satisfactory installation and also technical clearance form Computer Centre, IITM. The vendor must supply soft copy & Hardcopy of wiring diagram after completion of the work.</p>
8	<p>Terms and conditions :</p> <p>Failure to comply with any of the instructions stated in this document or offering unsatisfactory explanations for non compliance will likely to lead to rejection of offers.</p>
9	<p>Right of Acceptance:</p> <p>IIT MADRAS reserves the right to reject the whole or any part of the Tender without assigning any reason or to accept them in part or full.</p>
10	<p>Communication of Acceptance:</p> <p>Acceptance by the Purchaser will be communicated by Post, if required, and the Company's acceptance communicated to us formally in writing.</p>
11	<p>Warranty : Warranty should be 1 year. Indicate price change (if any) for extra year warranty.</p>
12	<p>Delivery Period: Items should be delivered within 4 to 6 weeks from the date of P.O./Award of Contract</p>

	(AOC)Please indicate the actual delivery period clearly. No further extension of time will be allowed. Non delivery of items will lead to cancellation of Purchase Order without any notice. In addition, action may be taken for removing them from our mailing list.
13	In terms of Rule 173 (iv) of General Financial Rules, 2017 the bidder shall be at liberty to question the bidding conditions, bidding process and/or rejection of its bid.
14	Conditions of contract: Tenderer should quote on the basis of the conditions referred to in Para of the invitation to tender and tender papers. In case these terms and conditions are not acceptable to the tenderer, he should specifically state the deviation(s) there from in the body of the tender.
15	Transit Insurance: The Purchaser will not pay separately for Transit Insurance.
16	Tenderer shall submit along with his Tender: Name and full address of the Banker and their swift code and PAN No. and GSTIN number.
17	Guarantee: The tenderer has to declare that the goods sold to the buyer under this contract shall be of the best quality and workmanship and shall be strictly in accordance with the specifications. Tenderer should indicate the period for which the said goods/articles would continue to confirm to the specifications.
18	Jurisdiction: All questions, disputes, or differences arising under, out of or in connection with the contract, if concluded, shall be subject to the exclusive jurisdiction at the place from which the acceptance of Tender is issued.
19	Force Majeure: The Supplier shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that, it's delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure. <ul style="list-style-type: none"> For purposes of this Clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the Purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes. If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such conditions and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.
20	Risk Purchase Clause: In event of failure of supply of the item/equipment within the stipulated delivery schedule, the purchaser has all the right to purchase the item/equipment from the other source on the total risk of the supplier under risk purchase clause
21	IIT Madras has the liberty to empanel more than one Vendor in rate contract. The Vendor may be called for price matching of L1 rate .
22	<u>For Technical Related Queries Contact :</u> Mr. V. Selvaraju,B.E.,M.E., Assistant Systems Engineer Computer Centre IIT Madras Chennai - 600 036. Phone No: 044- 2257 4988

Yours Faithfully

-sd/-
Deputy Registrar
(Stores & Purchase Section)

ACKNOWLEDGEMENT

It is hereby acknowledged that I/We have gone through all the points listed under “Specification, Guidelines, Terms and Conditions” of tender document. I/We totally understand the terms and conditions and agree to abide by the same.

**SIGNATURE OF TENDERER ALONG WITH
SEAL OF THE COMPANY WITH DATE**

DECLARATION

I/We/ M/s. _____ hereby declare that we have Certified Cable Installer Certificate issued by OEM and I/We/M/s. _____ confirm that Supply and installation is carried out only by the Certified cable Installer only.

**SIGNATURE OF TENDERER ALONG WITH
SEAL OF THE COMPANY WITH DATE**

ANNEXURE – A

1. VENDOR ELIGIBILITY CRITERIA

S. No.	Specifications	Compliance (Yes / No)	Remark
1	Vendor should be able to supply and install all the items uniformly by themselves. The Installation should be carried out only by the OEM Certified Cable Installer only. Vendor should produce documentary evidence for Certified Cable Installer from OEM		
2	Vendor should produce evidence for having professional experience in the implementation of reasonably large Local Area Network (more than 10,000 nodes).		
3	Vendor should have local office in Chennai for providing support in time.		

2. TECHNICAL REQUIREMENT:

S. No.	Specifications	Compliance (Yes / No)	Remark
1.	UTP & Fiber materials should conform to technical standards. Specified brands are Molex, Panduit (Pan Net Only), Commscope (Systimax only), TE (Amp only), Siemens. The brand name should be specified in the quote.		
2.	End-to-End UTP & Fiber accessories (Jackpanel, Cable, I/O, Patch cord, LIU) should be of same brand, any one from Sl. No. 1 above. The brand name should be specified in the quote.		
3.	RJ45 Connector should be from Sl. No. 1 above. The brand name should be specified in the quote.		
4.	PVC Products should be from Modi / TATA brand or equivalent ISI certified brands. The brand name should be specified in the quote.		
5.	Rack should be from VALRACK / HCL / APW President brand only. The brand name should be specified in the quote.		
6.	Termination no. tags should be fixed on both ends.		
7.	The vendor must supply soft copy & Hardcopy of wiring diagram after completion of the work.		

Sd/-
Deputy Registrar
Stores & Purchase

SCHEDULE

Name of Organization	Indian Institute of Technology Madras
Tender Type (Open/Limited/EOI/Auction/Single)	OPEN
Tender Category (Services/Goods/works)	Goods/Services
Type/Form of Contract (Work/Supply/ Auction/ Service/ Buy/ Empanelment/ Sell)	Supply
Product Category (Civil Works/Electrical Works/Fleet Management/ Computer Systems)	“Structured Network Cabling for IIT Madras Campus under Rate Contract for a period of one year”
Source of Fund (Institute/Project)	IIT Madras
Is Multi Currency Allowed	No
Date of Issue/Publishing	06.07.2018
Pre- bid Meeting Date and time	NA
Document Download/Sale Start Date	06.07.2018
Document Download/Sale End Date	26.07.2018
Last Date and Time for Uploading of Bids	26.07.2018 before 02.000 p.m.
Date and Time of Opening of Technical Bid	27.07.2018 at 03.00 p.m.
EMD	Rs. 60,000/-
No. of Covers (1/2/3/4)	2
Bid Validity days (180/120/90/60/30)	120 Days
Address for Communication	The Deputy Registrar Stores & Purchase Section IIT Madras Chennai – 600 036
Contact No.	<u>Technical Related Queries:</u> Mr. V. Selvaraju,B.E.,M.E., Assistant Systems Engineer Computer Centre IIT Madras Chennai - 600 036. Phone No: 044- 2257 4988 E-mail id : selva@iitm.ac.in
Email Address	adstores@iitm.ac.in

ANNEXURE - B

S. No.	Description	Unit	Brand	Supply		Supply Total	Installation Charge		Installation charge Total	Nett Price
				Unit Price	GST %		Unit Price	GST %		
I	UTP Materials CAT-6									
1	Cat6 Cable (4 Pair, 23 AWG Solid copper Conductor with LSZH,Printed Meter Marking)	Meter								
2	Cat6 I/O with Dust Cover to cover RJ45 Interface	Each								
3	SMB & Faceplate Made of PS /ABS Rugged Plastic.	Each								
4	Synergy Wall Plate 1 Port - 86mmx86mm- White	Each								
5	Synergy Wall Plate 2 Port - 86mmx86mm- White	Each								
6	24 Port Straight Jack Panel with Rear Metal Cable Manager, 1U loaded, transparent clear Label cover	Each								

S. No.	Description	Unit	Brand	Supply		Supply Total	Installation Charge		Installation charge Total	Nett Price
				Unit Price	GST %		Unit Price	GST %		
7	Cat6 (4 Pair, 24 AWG Standard Copper) Patch Cord – 2 Mtrs	Each								
8	Cat6 (4 Pair, 24 AWG standard copper) Patch Cord – 1 Mtrs	Each								
9	RJ45 Connector(Cat6) Supply and Crimping	Each								
10	Cat6 STP (4 pair 23 AWG Solid Copper with LSZH Grade, Printed Meter Marking) Cable.	Meter								
UTP Materials CAT-6A										
11	Cat 6A U/FTP CM 4 Pair Cable, LSZH Sheath.	Meter								
12	DG+ Shielded Jack (Diecast)Cat6A 568A/B, Shtd Supply & Crimping	Each								
13	24 Port Cat 6A Shielded (Diecast Jacks) Straight Patch Panel , 1U loaded.	Each								
14	Cat 6A FTP Patch Cord, 1mtr	Each								
15	Cat 6A FTP Patch Cord, 2mtr	Each								

S. No.	Description	Unit	Brand	Supply		Supply Total	Installation Charge		Installation charge Total	Nett Price
				Unit Price	GST %		Unit Price	GST %		
II	Fiber Materials									
1	2 Core outdoor ECCS armoured 9/125 micron Singlemode (OS2), Unitube construction / Multiple Loose Tube .	Meter								
2	6 Core outdoor armoured 9/125 micron Singlemode (OS2) Multiple Loose Tube, Corrugted Steel Tape Armour thickness > 0.15mm, two steel Gi wire for strength.	Meter								
3	12 Core outdoor armoured 9/125 micron Singlemode (OS2) Multiple Loose Tube, Corrugted Steel Tape Armour thickness > 0.15mm, two steel Gi wire for strength.	Meter								
4	24 Core outdoor armoured 9/125 micron Singlemode(OS2), Multiple Loose Tube, Corrugted Steel Tape Armour thickness > 0.15mm, FRP Rod for strength.	Meter								

S. No.	Description	Unit	Brand	Supply		Supply Total	Installation Charge		Installation charge Total	Nett Price
				Unit Price	GST %		Unit Price	GST %		
5	2 Core indoor spring armoured 9/125 micron Singlemode (OS2), with Aramid yarn – LSZH bend insensitive (G657-A1).	Meter								
6	6 Core Indoor 9/125 Singlemode (OS2) -LSZH Fiber Cable.	Meter								
7	12 Core Indoor 9/125 Singlemode (OS2) -LSZH Fiber Cable.	Meter								
8	24 Core Indoor 9/125 Singlemode (OS2) -LSZH Fiber Cable.	Meter								
9	SC - SC Single Mode OFC Patch cord, 9/125 Micron – 3 Mtrs	Each								
10	SC - LC Single Mode OFC Patch cord, 9/125 Micron – 3 Mtrs	Each								
11	SC Splicing	Each								
12	USO SC Adapter with Bezels SM	Each								

S. No.	Description	Unit	Brand	Supply		Supply Total	Installation Charge		Installation charge Total	Nett Price
				Unit Price	GST %		Unit Price	GST %		
13	SC Connectors - SM (Pigtail)	Each								
14	HFTP with 2 pigtail SCAPC loaded with Accessories	Each								
15	12 Port LIU Wall Mount, Fully Powder Coated Steel Body, Labelling, Metal Fiber Patch cord cover, Adapter Plate with SC or LC duplex type coupler.	Each								
16	12 Port LIU Rack Mount, Fully Powder Coated Steel Body, Labelling, Metal Fiber Patch cord cover, Adapter Plate with SC or LC duplex type coupler.	Each								
17	24 Port LIU Rack Mount, Fully Powder Coated Steel Body, Labelling, Metal Fiber Patch cord cover, Adapter Plate with SC or LC duplex type coupler.	Each								

S. No.	Description	Unit	Brand	Supply		Supply Total	Installation Charge		Installation charge Total	Nett Price
				Unit Price	GST %		Unit Price	GST %		
18	24 fiber splice Holder, support 45 mm and 61mm Splice protector, ABS halogen free Material, Base with self adhesive Pads of securing on a Flat surface and a lid	Each								
19	Waterproof fiber optic splice enclosure box made of high quality ABS materials, 4 cable entry port, 96 cores capacity, Scope for Straight / branch joints, Resistant to chemical and corrosive atmosphere, Water and Air Proof, Easy re-entry and closing with mechanical Plastic Clamp.	Each								
III	Implementation materials									
1	PVC Channel – 1"	Meter								
2	PVC Pipe – 1"	Meter								
3	PVC Channel – 1.5"	Meter								
4	PVC Pipe – 1.5"	Meter								

S. No.	Description	Unit	Brand	Supply		Supply Total	Installation Charge		Installation charge Total	Nett Price
				Unit Price	GST %		Unit Price	GST %		
5	PVC Channel – 2"	Meter								
6	PVC Pipe – 2"	Meter								
7	HDPE Pipe – 1"	Meter								
8	HDPE Pipe – 1.5"	Meter								
9	HDPE Pipe – 2"	Meter								
10	MK PVC Channel 100/40	Meter								
11	4U Rack + 2 Fan + 1 Cable Manager +1 Power Strip	Each								
12	6U Rack + 2 Fan + 1 Cable Manager +1 Power Strip	Each								

S. No.	Description	Unit	Brand	Supply		Supply Total	Installation Charge		Installation charge Total	Nett Price
				Unit Price	GST %		Unit Price	GST %		
13	9U Rack + 2 Fan + 1 Cable Manager +1 Power Strip	Each								
14	12U Rack + 2 Fan + 1 Cable Manager +1 Power Strip	Each								
IV	Excavation of Cable Trench 3 feet's depth, Brick & soft soil refilling	Meter								

Name , Designation & Seal of the company