

Government
eProcurement
System

Government eProcurement System

Tender Details

Date : 23-Mar-2021 10:21 AM

Print

Basic Details

Organisation Chain	Council of Scientific and Industrial Research CSIO-Chandigarh - CSIR Purchase-CSIO - CSIR		
Tender Reference Number	CSIO-3-49-2020-Pur		
Tender ID	2021_CSIR_74120_1		
Tender Type	Open Tender	Form of contract	Supply
Tender Category	Goods	No. of Covers	1
General Technical Evaluation Allowed	No	ItemWise Technical Evaluation Allowed	No
Payment Mode	Not Applicable	Is Multi Currency Allowed For BOQ	No
Is Multi Currency Allowed For Fee	No	Allow Two Stage Bidding	No

Cover Details, No. Of Covers - 1

Cover No	Cover	Document Type	Description
1	Fee/PreQual/Technical/Finance	.pdf	Supply Installation testing commissioning and configuration of Single Mode Fiber details enclosed
		.xls	Supply Installation testing commissioning and configuration of Single Mode Fiber details enclosed

Tender Fee Details, [Total Fee in ₹ * - 0.00]

Tender Fee in ₹	0.00	Fee Payable To	Nil	Fee Payable At	Nil
Tender Fee Exemption Allowed	No				

EMD Fee Details

EMD Amount in ₹	0.00	EMD through BG/ST or EMD Exemption Allowed	No
EMD Fee Type	fixed	EMD Percentage	NA
EMD Payable To	Nil	EMD Payable At	Nil

Work / Item(s)

Title	CSIO-3-49-2020				
Work Description	Supply Installation testing commissioning and configuration of Single Mode Fiber details enclosed				
Pre Qualification Details	Please refer Tender documents.				
Independent External Monitor/Remarks	NA				
Show Tender Value in Public Domain	No				
Tender Value in ₹	0.00	Product Category	Electronic Components And Devices	Sub category	NA
Contract Type	Tender	Bid Validity(Days)	90	Period Of Work (Days)	45
Location	Purchase Section CSIO-CSIO Sector 30 Chandigarh	Pincode	160030	Pre Bid Meeting Place	NA

Pre Bid Meeting Address	NA	Pre Bid Meeting Date	NA	Bid Opening Place	Purchase Section CSIR-CSIO
Should Allow NDA Tender	No	Allow Preferential Bidder	No		

Critical Dates

Publish Date	23-Mar-2021 10:30 AM	Bid Opening Date	14-Apr-2021 03:30 PM
Document Download / Sale Start Date	23-Mar-2021 10:30 AM	Document Download / Sale End Date	13-Apr-2021 03:00 PM
Clarification Start Date	23-Mar-2021 10:30 AM	Clarification End Date	12-Apr-2021 03:00 PM
Bid Submission Start Date	23-Mar-2021 10:30 AM	Bid Submission End Date	13-Apr-2021 03:00 PM

Tender Documents

NIT Document	S.No	Document Name	Description	Document Size (in KB)
	1	Tendernotice_1.pdf	Supply Installation testing commissioning and configuration of Single Mode Fiber details enclosed	4110.25

Work Item Documents	S.No	Document Type	Document Name	Description	Document Size (in KB)
	1	BOQ	BOQ_80065.xls	Supply Installation testing commissioning and configuration of Single Mode Fiber details enclosed	309.50

Auto Extension Corrigendum Properties for Tender

Iteration	No. of bids required for bid opening a tender	Tender gets extended to No. of days
1.	2	7

Bid Openers List

S.No	Bid Opener Login Id	Bid Opener Name	Certificate Name
1.	bhatnagar.eproc@csir.res.in	Brijender Bhatnagar	BRIJENDER KUMAR BHATNAGAR
2.	madan.eproc@csir.res.in	Madan Sharma	MADAN SHARMA
3.	satya.eproc@csir.res.in	Satya Prakash Prabhakar	SATYA PRAKASH PRABHAKAR
4.	dverma.eproc@csir.res.in	Dinesh Verma	DINESH KUMAR VERMA

GeMARPTS Details

GeMARPTS ID	7A8U9U10T126
Description	Single Mode Fiber
Report Initiated On	19-Mar-2021
Valid Until	18-Apr-2021

Tender Inviting Authority

Name	Stores and Purchase Officer
Address	The Director CSIR-CSIO Sector 30 Chandigarh

Tender Creator Details

Created By	Ramesh Kumar
Designation	Assistant
Created Date	23-Mar-2021 10:14 AM

सीईएसआईआर - केन्द्रीय वैज्ञानिक उपकरण संगठन
CSIR-Central Scientific Instruments Organisation
सेक्टर 30 सी चंडीगढ़ Sector-30C, Chandigarh 160 030

निविदा संख्या / Tender No.	CSIO/3(49)/2020-Pur	दिनांक / Issue Date:	March 19, 2021
निविदा प्राप्त का अंतिम समय एवं दिनांक / Date & time of receipt of tender	13.04.2021, 3.00 P.M. तक।	निविदा खोलने का समय एवं दिनांक / Date & time of opening of Tender	14.04.2021 at 3.30 P.M.

E-TENDER

हम निम्नानुसार उपस्कर/सामग्री खरीदने के इच्छुक हैं। कृपया अपनी कोटेशन निदेशक, सी.एस.आई.ओ. के नाम ई-टेंडर द्वारा भेजें। जिसे निरधारित समय पर आपूर्तिकर्ताओं के प्रतिनिधियों (जो भी सवेच्छा से उपस्थित हों) के समक्ष खोला जाएगा।

We are interest to purchase the below given items/attached items. Kindly upload your Tender/Quotation/Proforma Invoice through E-Tender. Tenders/quotation will be opened in the presence of supplier's representatives who wish to present themselves at that time.

S. No.	Item Description	Qty	BD* (SB/TB)	EMD (Rs.)
1.	Supply, Installation, testing, commissioning and configuration of Single Mode Fiber Backbone details enclosed.		Single Bid	Nil (Form 5F to be submitted)

Note:- For financial bid, please fill the BOQ, as attached after going the specifications. The tender through e.mail/FAX will not be considered.

Please carefully refer all the Terms & conditions (attached), before submission of Tender to avoid rejection.

- The offer received without mentioning the terms & conditions i.e validity of offer, delivery period, payment terms, warranty, submission of Performance Bank Gurantee etc, will be not considered and summarily rejected.
- Bidder who doesn't manufacture the goods it offers to supply shall submit Manufacturers' Authorization Form (MAF) using the form specified in the bidding document to demonstrate that it has been duly authorized by the manufacturer of the goods to quote and/or supply the goods, failing which offer will not be considered/rejected**
- The successful bidder has to provide Performance Security for 3% value of the contract as specified in the bid documents. Performance Security may be furnished in the form of an account payee demand draft, fixed deposit receipt from a commercial bank, bank guarantee issued/confirmed from any of the commercial bank in India in an acceptable form, safeguarding the purchaser's interest in all respects.

Tender has been e-tender on www.etenders.gov.in. Prospective bidders are requested to get themselves registered on www.etenders.gov.in for future also.

Yours faithfully



(S.P.Prabhakar)

Stores & Purchase Officer

Website: www.csio.res.in E.Mail: spo@csio.res.in Phone: 91-172-2652651, Telefax: 91-172-2652651

TERMS & CONDITIONS

1. The quotation/tender must be in the form furnished by the Purchaser/as per tender specifications and should be free from corrections/erasures. In case there is any unavoidable correction it should be properly attested. If not the quotation will not be considered. **Hand written Quotations will not be considered.**
- (a) Where there is no mention of packing, forwarding, freight, insurance charges, taxes etc. **such offer shall be rejected as incomplete. As such clearly mention these charges.**
- (b) The bidder should give a clear cut break up of ex-works, FOB/FCA, CIF/CIP price to facilitate the proper comparison **failing which the bid would be summarily ignored/rejected.** CSIR reserves the right to order on the basis of any of the incoterms. The Exchange selling rates will be taken from www.xe.com.
- (c) The gross weight of the consignment may be intimated in the Quotation/Tender/Proforma Invoice to decide the mode of dispatch.
2. **The E-Tenders will be accepted through online only. The tender received in any other mode or physical tender will not be accepted and will be ignored. This is not applicable for E-Publish Tender Notice**
3. It may kindly be noted that your bid should
 - A) be in **single part. (single part / two part bidding) (retain one only)**
 - B) accompany Bid Security(EMD)/5F (Annexure) of Rs..... **(retain only if applicable)**

Bidders that are currently registered with the purchaser or registered as MSEs will continue to remain registered during the tender validity period also and are exempted from payment of EMD. In case the tenderer falls in these categories, the bidder should furnish a certified copy of its valid registration details. Except for MSEs, this exemption is valid for the trade group and monetary value of registration only. **The MSEs are provided tender document free of cost and are exempted from the payment of Bid Security provided the goods are produced and the services are rendered by them and not for any trading activities undertaken by them.**

Whenever the bidder chooses to submit the Bid Security in the form of Bank Guarantee, then he should advise the banker issuing the Bank Guarantee to immediately send by Registered Post (A.D.) an unstamped duplicate copy of the Guarantee directly to the Purchaser with a covering letter to compare with the original BG for the correctness, genuineness, etc
 - C) on the event of award of Contract in your favour, you need to submit a Performance Bank Guarantee for 3% of the ordered value valid for a period of 2 Months beyond the Warranty period of..... **(retain only, if applicable)**
4. Each quotation/Tender in case of E-Publish Tender sent by post is to be enclosed in double cover addressed to **The Director, CSIO, Sector-30, Chandigarh-160 030.** Quotations delivered personally should be put in the tender box kept in the office of Stores & Purchase Officer. **The late /delayed & unsigned quote will not be considered at all.**
5. The acceptance of the quotation will rest with the competent authority of **Central Scientific Instruments Organisation, Sector-30, Chandigarh** who does not bind himself to accept the lowest quotation and reserves the right to himself to reject, or partially accept any or all the quotations received without assigning any reason.
6. **Price & Validity:** Price quoted should be net (separately mention required charges as Sr.No. 1(a,b) above) and valid for a minimum period of **90 days** from the date of opening of the quotation, **failing which the offer will be ignored/rejected.**
7. The bidder must submit the applicable Price Schedule Form as Annexed to the tender document available on the website.
8. Complete specification with manufacturer's name and address should be given while quoting. Literature/Pamphlets should also be enclosed wherever applicable.
9. Prices are required to be quoted in units indicated in the enquiry. When quotations are given in terms of other units, relationship between two sets of units should be furnished. Quantity discounts, if any should also be indicated. The items should be quoted indicating the serial No. of our RFQ.
10. In cases of agents quoting on behalf of their foreign manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. **One manufacturer can also authorize only one agent/dealer.** There can be only one bid from the following:
 1. The foreign manufacturer directly or through one Indian agent on his behalf; or
 2. Indian/foreign agent on behalf of only one principal.
11. Please indicate the name and address of the agents in India if any, the details of service to be rendered by them & the percentage of commission payable to them. Agency commission payable to the Indian Agent should be clearly indicated. The Agency commission would be payable only in Indian Rupees after acceptance. Further an Indian Agent cannot quote on behalf of two different foreign suppliers. If they submit two offers on behalf of two different foreign suppliers, **their offers may not be considered.** **If the offer is submitted by the Authorised Dealer/Agent/Distributors, it should be alongwith Authorisation Certificate, failing which the offer will be ignored/rejected.** The offer submitted through authorisation on behalf of the principal, the terms & conditions settled by the Agent with buyer will be binding on their principal.

Bidder who doesn't manufacture the goods it offers to supply shall submit Manufacturers' Authorization Form (MAF) using the form specified in the bidding document to demonstrate that it has been duly authorized by the manufacturer of the goods to quote and/or supply the goods, failing which offer will not be considered/rejected.
12. **Taxes as are applicable should be indicated clearly failing which the offer shall not be considered and rejected.** This lab/Instt is registered with Dept. of Scientific & Industrial Research, Govt. of India and concessional customs duty and GST & IGST are leviable vide notification no. Custom Duty under Govt. Notification No. 51/96-Custom dated 23.07.1996 and No. 43/2007-Customs dated 30.06.2017 and Govt. Notification No. 45/2017-Central Tax (rate) & No. 45/2017-Integrated Tax (rate) dated 14.11.2017. Only basic duty is applicable under this notification, hence bidders will have to submit their offer accordingly. We are exempted from payment of Customs Duty under notification No.51/96 dated 23.07.1996. Hence IGST and Customs Duty, if any, should be shown separately. No other charges than those mentioned clearly in the quotation will be paid

P.T.O.

13. The mode of dispatch/transportation of the items must be by Air/Sea/Rail/Road only. (Retain one only).
 14. In case the items in the enquiry are covered by any rate contract or running contract finalised by any other state or central Government, it should be specified in your quotation and accepted contract rates should also be mentioned.
 15. **Delivery period** required for supplying the material should be invariably specified in the quotation. The offered delivery period shall have to be strictly adhered to in case an order is placed.
 16. **Liquidated Damages Clause for delays:** The applicable rate is 0.5% per week and maximum deduction is 10% of the contract price.
 17. If the deliveries are not maintained and due to that account the purchaser is forced to buy the material at your risk and cost from elsewhere, the loss or damage that may be sustained there by will be recovered from the defaulting supplier.
 18. All supplies are subject to inspection and approval before acceptance. Manufacturer warranty certificates and manufacturer/Government approved lab test certificate shall be furnished along with the supply, wherever applicable. Please mention the warranty period of equipment, which should be from the date of satisfactory installation. **The offer received for lesser warranty, as asked for in the tender, will be rejected/ignored.**
 19. TDS would be recovered as per rules in case of Fabrication/ Servicing/ Maintenance jobs/Installation charges etc.
 20. Kindly furnish your PAN & GST Number etc. in your quotation for our records. Our GST No. is 04AAATC2716R1ZN
 21. Our normal payment terms are 100% (hundred percent) within 30 (thirty) days on receipt and acceptance of material at our site in good condition. Please inform your Bank details for RTGS payment. Banking details should be available on Bill/invoice.
 22. **Reasonability of Prices/Fall Clause**
 - i) Please quote best minimum prices applicable for a premiere Research Institution, leaving no scope for any further negotiations on prices.
 - ii) The quoting party should give a certificate to the effect that the quoted prices are the minimum and they have not quoted the same item on lesser rates than those being offered to CSIO to any other customer nor they will do so till the validity of offer or execution of the purchase order, whichever is later.
 - iii) Copies of atleast two recently supplied orders of the last two years received from other customers alongwith details of such supply orders preferably in India for the same item/model may be submitted with the offer giving reasons of price difference of their supply order & those quoted to us, if any. The party must give details of identical or similar equipment, if any, supplied to any CSIR lab during the last three years alongwith the final price paid and Performance certificate from them.
 23. **Installation/commissioning:** Equipment/Instruments are required to be commissioned/installed/demonstrated successfully immediately or within 30 days from the date of receipt of the system in CSIO by the Principal or by their authorized Agent, failing which the Liquidated Damage Clause will be applicable as mentioned above.
 24. Certificate of undertaking that the equipment is of latest technology & will not be obsolete within 5 years after warranty will be attached with the offer. All essential spares parts of the offered equipment will available with the manufacturer or in India with your Indian Agents for a period of at least 5-7 years after warranty period which will be required at later stage as per policy or Udyog Adhar Udyog Memorandum in respective category
 25. MSME benefits will be given to the eligible supplier as per the Govt. guidelines subject to submission of proper document
 26. Code of Integrity has to be maintained by Bidders/Suppliers/Contractors by maintaining highest standards of ethics in the Procurement process and prohibits corrupt practice/Fraudulent practice/Anti- Competitive practice / Coercive Practice/ Conflict of Interest and Obstructive practice either directly or indirectly during the process of contract.
 27. Director, CSIR-CSIO, Chandigarh reserves the right to reject all or even the lowest quotation without assigning any reason
 28. All disputes shall be settled in the courts of **Chandigarh Jurisdiction** only.
 29. Tender conditions (printed on the reverse), if any, or otherwise sent along with the tender shall not be binding on us.
 30. All the above instructions and our standard terms and conditions must be complied failing which your offer may be liable for rejection.
As per Govt. of India procurement policies (under Make in India (MI))
 - a. The purchaser intends to give purchase preference to local suppliers* in case the cost of procurement is in the range of more than Rs 5.00 lakhs and up to Rs. 50.00 lakhs.
 - b. The eligibility of the supplier is restricted to Indian Suppliers or there is no restriction on the eligibility of the suppliers. (retain any one only)
 - c. The procuring entity intends to give purchase preference to products/goods manufactured by micro, small and medium enterprises.
 31. *"Local supplier" means a supplier or service provider whose product or service offered for procurement meets the minimum local content as prescribed in DIPP Order No.P-45021/2/2017-PP (BE-II) dated 28th May, 2018 or by the competent Ministries/Departments in pursuance of this order.
'Local content' means the amount of value added in India which shall, unless otherwise prescribed by the Nodal Ministry, be the total value of the items procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent.
d) No imported/foreign product will be considered to evaluate for financial comparison until local contents certificate for Class-I & Class-II is provided & passed as per guidelines.
- Instructions to Bidders, General Conditions of Contract applicable to limited tenders originating from S&P Division along with different formats can be viewed on our website www.csio.res.in under the heading tenders.

Yours faithfully,
SPO/COSP
For & on behalf of CSIR.

TECHNICAL SPECIFICATIONS FOR SUPPLY, INSTALLATION, COMMISSIONING AND CONFIGURATION OF SINGLE MODE FIBER AT CSIR-CSIO CAMPUS

CSIR-Central Scientific Instruments Organisation, Sector 30C, Chandigarh is a premier research institute of Council of Scientific & Industrial Research (CSIR). All major locations in CSIR-CSIO are connected with Local Area Network. Information Service Division (ISD) manages its Server Rooms and network facility. The ISD is supported by redundant un-interrupted power supply and cooling system.

Through this Tender, CSIR-CSIO is inviting Technical Bid & Financial Bid from potential Original Equipment Manufacturers (OEMs) and/or authorized channel partner or agents and system integrators for Fiber solution. Authorized channel partner or agents or system integrators or OEM will be referred to as vendor.

1. Scope of Work

- i. CSIR-CSIO is inviting tender for turnkey project for supplying and Laying of fiber cable and its termination at different locations from vendors for establishing local area network (LAN) i.e. supply, laying, fixing, installation, testing and commissioning of OFC backbone, Rack, LIU other and related accessories. as per **specifications** outlined in "**Annexure-2**". A **list and quantity of items** required for fiber network solution is given in "**Annexure-1**". Existing OFC, switches, Wi-Fi, switches etc. must be used to give complete connectivity.
- ii. Vendor should provide documentation along with diagram(s) of configuration and procedure of installation for OFC Rack and LIU, Provide us with documentation and diagram of physical and logical connectivity.
- iii. Labeling or Tag-Ids of all racks, OFC uplink and downlink etc. is to be carried out by the vendor. Location and tag-ids are to be mentioned in corresponding diagrams etc. given in documentation.
- iv. OFC cable laying and fixing along with fixing of racks should be carried out in consultation with engineering department of CSIR-CSIO with no or minimum damage to premises. Vendor shall be responsible for any damage to the buildings, floors and other existing installations etc. caused during this project and will need to fix the same. All tools and implements viz ladder, support, drill machine etc have to be arranged by the vendor itself. Aesthetics and symmetry are to be considered while establishing this solution at the campus.
- v. Vendor shall provide training along with live demonstrations to technical staff of CSIR-CSIO with regard to installation, configuration, operation, management and monitoring of this solution

2. Pre-Qualifications criteria for vendor:

- i. Vendor should be in existence for last 5 years in the field of information technology and networking. The support facilities should be fully owned by the vendor and managed by their own employees and not through third party. Vendor must certify these while submitting tender.
- ii. Vendor should have annual turn-over of atleast Rs. 5.0 Crore in the last three financial years.
- iii. Vendor should have fully functional office and support facilities in tri-city (Chandigarh/Mohali/Panchkula).

- iv. Vendor must have successfully executed two orders for establishing networks, amounting to minimum of INR 20 Lakhs each during last three financial years (FY 17-18, FY 18-19, 2019-20) Documentary proof of the same should be attached.

3. Terms and Conditions for Payment:

- i. Payments will be made on as per actual basis in case of laying and fixing of cables such as OFC, PVC, HDPE pipes, flexible etc.
- ii. CSIR-CSIO may increase or decrease quantity by 15% at the time of order.
- iii. In financial bid, Taxes such as GST should be separately and clearly mentioned against the items, wherever applicable.

4. General Terms and Conditions:

- i. Authorization letter from Original Equipment Manufacturer (OEM) in favor of authorized system integrators to bid, negotiate, supply of equipment etc., conclude the order against this tender must be enclosed with technical bid.
- ii. Completion certificate will be issued after successfully functioning of system for continuous 10 days i.e. after handing over the working solution to CSIO. The warranty will begin from the date of completion and acceptance.
- iii. Onsite support must be provided on next business day for the total solution for three years.
- iv. Vendors will have to show cable markings/numbering, cable length-marks on cables to our staff.
- v. The licensing policies, wherever required must be mentioned clearly.

QUANTITIES OF ITEMS

Annexure -

S.NO	Supply installation testing and commissioning of following Items.	Unit	QTY
1.	12 Core Single Mode OS2 Fibre Cable	Meters	2500
2.	48 Core Single Mode OS2 Fiber Cable	Meters	350
3.	12 Fiber Sliding LIU Loaded with LC duplex Adapter and LC Pigtails, Single Mode	NOS	13
4.	24 Fiber Sliding LIU loaded with LC Duplex Adapter and LC Pigtails, Single Mode	Nos	11
5.	48 Fiber Sliding LIU loaded with LC Duplex Adapter and LC Pigtails, Single Mode	Nos	4
6.	144 Fiber LIU Fully Loaded with LC Duplex Adopter and LC pigtails	NOS	1
7.	LC-LC Single Mode Fiber Patch Cord (3 meter)	NOS	80
8.	42U floor standing (800 x 1000mm) Network rack with Accessories (Cable Manager PVC =6 Power Distribution unit 5/15 Amp a5 socket vertical = 2 fan tray with 4 Fans = 1, Mounting hardware = 5)	NOS	1
9.	15U wall mount rack with Accessories (Cable Manager = 3, Power Distribution unit 5/15 Amp 6 socket = 1, Fans = 2, Mounting hardware = 3)	NOS	24
10.	40 X 33 mm PLB HDPE pipe	Meters	3000
11.	1.5 " PVC Pipe (LMS) ISI*	Meters	300
12.	Laying of PVC pipe* 1.5"	Meters	300
13.	Horizontal Directional Drilling alongwith laying of fiber and HDPE*	Meters	2500
14.	Digging of Soft soil*	Meters	250
15.	Digging of Hard soil*	Meters	100
16.	Fixing Racks	NOS	25
17.	Splicing of Pigtail*	Nos	756
18.	OTDR Testing of Fiber Cable*	Nos	756

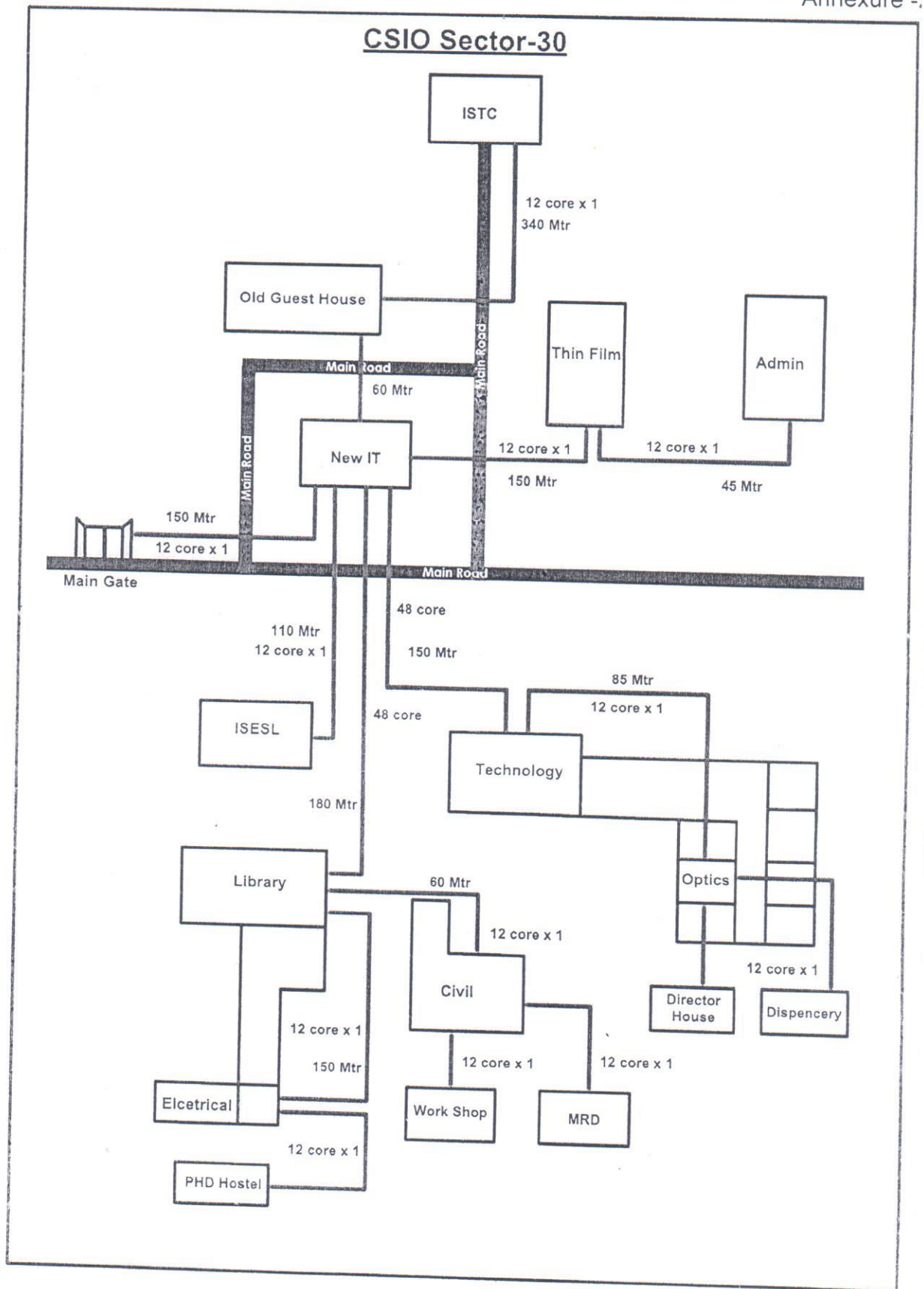
*On services, charges will be paid on actual basis

TECHNICAL SPECIFICATIONS

	All Passive Networking components (Fiber & Compoenets) shall be of same make as per mentioned specification.
	Passive OEM should have members participating in International Standard Bodies like EIA/TIA, ISO/IEC and BICSI etc.
	Passive components
1	48 Core Single Mode OS2 Multitube Armoured Outdoor Optical Fiber Cable
	The fiber should have 48 cores and optimized for operation at 1310 nm and at 1550 nm
	OFC should have a outer protection of corrugated steel tape and Central strength member as steel wire
	OFC should fulfill the requirements of ISO.IEC 11801 - 2nd Edition, type OS2
	OFC should support ITU-T REC G 652D, IEC 60794-1-2 F5, G657A1, G657A2 and G657B3.
	OFC construction should be Multi tube with protection of Polybutylene Terephthalate (PBT) and Gel filled
	Fiber Cable should have Min 4 tubes of 12 Fiber each for 48 Core Fiber.
	OFC should have a minimum short term tensile strength of 1500N and minimum short term crush resistance of 2200N/100mm
	Material of Outer Sheath should be Polyethylene (PE) Black and overall cable diameter should be min 10mm
	OFC should weight should be min 120 + KG/KM
	OFC must have Min. Bending Radius of 20 x outer diameter during installation
	OFC must support Operating Temperature range of -40°C to +70°C
	OFC should be RoHS Compliant
2	12 Core Single Mode OS2 Unitube Armoured Outdoor Optical Fiber Cable
	The fiber should have 12 cores and optimized for operation at 1310 nm and at 1550 nm
	OFC should have a outer protection of corrugated steel tape and 2 Parelal steel wire as strength member.
	OFC should fulfill the requirements of ISO.IEC 11801 - 2nd Edition, type OS2
	OFC should support ITU-T REC G 652D, IEC 60794-1-2 F5, G657A1, G657A2 and G657B3,
	OFC construction should be Unitube with protection of Polybutylene Terephthalate (PBT) and Gel filled
	OFC Central Tube should be PBT with Dia of 2.8 mm min and Outer should be Black HDPE.
	OFC should have a minimum short term tensile strength of 1500N and minimum short term crush resistance of 2200N/100mm
	OFC should weight should be min 80 + KG/KM
	OFC must have Min. Bending Radius of 20 x outer diameter during installation
	OFC must support Operating Temperature range of -40°C to +70°C
	OFC should be RoHS Compliant
3	12 Fiber Rack Mount LIU Loaded with LC Adapter and LC Pigtails (Singlemode)
	Should support 2 or more removable adapter plates in 1U height and can be upgraded up to 48 Fiber Cores.
	Should be made of high quality cold-rolled steel, and the surface coated by Electrostatic powder epoxy paint

	Should support sliding Type of tray for access to trunk cable connectors without removing patch cords
	LIU should be supplied with 24 core Fiber splice Tray, Splice Sleeves and Cable Spool
	Should support different adapter plate for LC Duplex, SC Simplex; MM and SM
	Should be RoHS compliant and has UL94 flame retardant plastic parts
	Should support both loose tube and pre terminated cables
	Height: 44mm, Width: 483mm, Depth: 220mm
	Should withstand operating temperatures of -20°C to +60°C
	Pigtails should be LC Type, Outer Jacket - 0.9mm LSZH of 1 mtr Length
	Pigtails connector should have Less than .20db of Insertion loss and return Loss of >36db
	Should be supplied populated with Singlemode 6 LC Duplex Adaptors and 12 LC LSZH 1 Mtr Pigtails
4	24 Fiber Rack Mount LIU Loaded with LC Adapter and LC Pigtails (Singlemode)
	Should support 3 or more removable adapter plates in 1U height and can be upgraded up to 48 Fiber Cores
	Should be made of high quality cold-rolled steel, and the surface coated by Electrostatic powder epoxy paint
	Should support sliding Type of tray for access to trunk cable connectors without removing patch cords
	LIU should be supplied with 24 core Fiber splice Tray, Splice Sleeves and Cable Spool
	Should support different adapter plate for LC Duplex, SC Simplex; MM and SM
	Should be RoHS compliant and has UL94 flame retardant plastic parts
	Should support both loose tube and pre terminated cables
	Height: 44mm, Width: 483mm, Depth: 220mm
	Should withstand operating temperatures of -20°C to +60°C
	Pigtails should be LC Type, Outer Jacket - 0.9mm LSZH of 1 mtr Length
	Pigtails connector should have Less than .20db of Insertion loss and return Loss of >36db
	Should be supplied populated with Singlemode 12 LC Duplex Adaptors and 24 LC LSZH 1 Mtr Pigtails
5	48 Fiber Rack Mount LIU Loaded with LC Adapter and LC Pigtails (Singlemode)
	Should support 3 or more removable adapter plates in 1U height and can be upgraded up to 48 Fiber Cores
	Should be made of high quality cold-rolled steel, and the surface coated by Electrostatic powder epoxy paint
	Should support sliding Type of tray for access to trunk cable connectors without removing patch cords
	LIU should be supplied with 48 core Fiber splice Tray, Splice Sleeves and Cable Spool.
	Should support different adapter plate for LC Duplex, SC Simplex; MM and SM
	Should be RoHS compliant and has UL94 flame retardant plastic parts
	Should support both loose tube and pre terminated cables
	Height: 44mm (1U), Width: 483mm, Depth: 220mm

	Should withstand operating temperatures of -20°C to +60°C
	Pigtails should be LC Type, Outer Jacket - 0.9mm LSZH of 1 mtr Length
	Pigtails connector should have Less than .20db of Insertion loss and return Loss of >36db
	Should be supplied populated with Singlemode 24 LC Duplex Adaptors and 48 LC LSZH 1 Mtr Pigtails
6	144 Fiber Rack Mount Distribution Frame Loaded with LC Adapter and LC Pigtails (Singlemode)
	LIU should be height of max 4U and should support 288 core welding in future (double LC adapter).
	Should be made of high quality cold-rolled steel, and the surface coated by Electrostatic powder epoxy paint
	LIU should be supplied with 6 stackable 24 core Fiber splice Tray, Splice Sleeves as per Fiber Core.
	Splice tray can be easily increased and reduced according to capacity
	Suitable for pre termination wiring and welding scheme
	Should support both loose tube and pre terminated cables
	Modular Optical Distribution Frame should be Suitable for rack and cabinet mounting
	Customized wire management design, transparent alloy front cover, wiring clean and safe
	LIU should be supplied with Square Nut assembly, reversible tie band, Velcro strip
	Pigtails should be LC Rainbow Type, Outer Jacket - 0.9mm LSZH.
	Pigtails connector should have Less than .20db of Insertion loss and return Loss of >36db
	Should be supplied populated with Singlemode 72 LC Duplex Adaptors and 144 LC LSZH Pigtails
7	LC-LC Singlemode Duplex LSZH Fiber Patch Cord - 3 Meter
	LC-LC 9/125µm OS2 Singlemode Duplex Patch Cord of Length 03 mtrs
	Patch cord should support IEC-61304 (Low Smoke), IEC-60754-1 (Halogen free), IEC-60332-3C (Flame retardant), IEC-60754-2 (Corrosion Proof)
	Insertion loss should be better than 0.30 dB
	outer jacket should be LSZH Type.
	Should support Telcordia GR-326-CORE Issue 4 standards
	Should be 1310/1550 nm wavelength and max attenuation 0.36/0.22 dB/KM
	Should support Operating Temperature of -40°C to +75°C



Bid-Securing Declaration Form*(Refer para 5.1.2 (ix)(d) & 6.1.1 (02) of the CSIR Manual)*

Date: _____

Bid No. _____

To (insert complete name and address of the purchaser)

I/We. The undersigned, declare that:

I/We understand that, according to your conditions, bids must be supported by a Bid Securing Declaration.

I/We accept that I/We may be disqualified from bidding for any contract with you for a period of one year from the date of notification if I am /We are in a breach of any obligation under the bid conditions, because I/We

- (a) have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or
- (b) having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i) fail or reuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders.

I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Signed: (insert signature of person whose name and capacity are shown) in the capacity of (insert legal capacity of person signing the Bid Securing Declaration).

Name: (insert complete name of person signing the Bid Securing Declaration)

Duly authorized to sign the bid for an on behalf of : (insert complete name of Bidder)

Dated on _____ day of _____ (insert date of signing)

Corporate Seal (where appropriate)

(Note: In case of a Joint Venture, the Bid Securing Declaration must be in the name of all partners to the Joint Venture that submits the bid)