



केन्द्रीय शुष्क क्षेत्र अनुसंधान संस्थान,
(भारतीय कृषि अनुसंधान परिषद)
जोधपुर (राजस्थान) 342 003

Phone No. 0291 – 2786584(Dir.)/2786485(CAO)/2785981(AO) FAX: 0291 – 2788706(Dir.)/2786498(PME)

By Hand/Website



फाईल नं० 7(3)/2003-04 / प्रशासन चतुर्थ /

दिनांक: 28.07.2014

Details for inviting bids for Rate Contract for Comprehensive Maintenance of Entire LAN of CAZRI and providing LAN Items

निविदा स्वीकार करने की अंतिम तिथि : 22.08.2014 को 14:00 बजे तक
निविदा खोलने की दिनांक : 22.08.2014 को 14:30 बजे तक

नोट: निविदा प्रपत्र, संबंधित विवरण, नियम व शर्तें इस संस्थान की वेबसाइट www.cazri.res.in पर उपलब्ध है। इच्छुक निविदाकर्ता निविदा प्रपत्र संस्थान के वेब साइट से डाउन लोड कर या संस्थान के प्रशासन चतुर्थ से प्राप्त कर अंतिम तिथि/समय से पहले प्रशासन चतुर्थ में प्रस्तुत कर सकते हैं।

प्रेषक:

सहायक प्रशासकीय अधिकारी, प्रशासन चतुर्थ/स्टोर अनुभाग
कै. श. क्षेत्र. अनु. सं.,
जोधपुर (राज०) 342003

सेवा में

मैसर्स/श्रीमान् _____

विषय: Tender Notice for inviting bids for Rate Contract for Comprehensive Maintenance of Entire LAN of CAZRI and providing LAN Items – **regd.**

महाशय,

इस संस्थान के निदेशक की ओर से Rate Contract for Comprehensive Maintenance of Entire LAN of CAZRI and providing LAN Items के लिए मुहर बन्द निविदाएं आमंत्रित की जाती हैं। निविदा का विस्तृत विवरण, नियम व शर्तें सलग्नक अनुसार हैं।

सभी प्रकार से पूर्ण सीलबन्द निविदा अद्योहस्ताक्षरी के कार्यालय में दिनांक 22.08.2014 को प्रातः 12:00 बजे तक हाथों – हाथ या डाक/कोरियर द्वारा प्रस्तुत की जानी चाहिए। निश्चित अंतिम दिनांक एवं समय के पश्चात निविदाएं स्वीकार्य नहीं की जायेगी।

निविदाएँ दिनांक 22.08.2014 को 14:30 बजे इस संस्थान की समिति द्वारा उपस्थित निविदादाताओं के सामने प्रशासनिक भवन के कमेटी हॉल, काजरी में खोली जाएगी।

भवदीय,

सहायक प्रशासकीय अधिकारी (भण्डार)
वास्ते निदेशक

सलग्न : उपरोक्तानुसार।

Index of the Proposal for Comprehensive Maintenance of Entire LAN of CAZRI and Rate Contract for LAN Items (Valid for 1 Year) with complete details is mentioned below in table:

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Proposal for Comprehensive Maintenance of Entire LAN of CAZRI, Jodhpur and Rate Contract for LAN Items (To be Procured as and When required and Rates should remain Valid for 1 Year)

Scope of AMC: The LAN consists of underground Optical Fiber Cable as backbone interconnecting the eight office buildings (and underground UTP cables for connecting computers for the LAN as well as Switches for interconnectivity within buildings. The layout diagram of CAZRI LAN is available at Agricultural Knowledge Management Unit, CAZRI, Jodhpur. The distribution of the LAN facility is approximate **175** nodes (Which may increase as the demand raise) is through various active and passive LAN components/devices like layer 2 / layer 3 switches, multiport switches ,hubs, I/O ports, RJ45 connectors, UTP cablings, racks with Power Distribution Unit (PDU), patch panels, patch cords, Light Interface Unit (LIU) etc. With the advancement of technology high speed Internet connectivity by NKN (National Knowledge Network) with three servers for email and web hosting on our server are entirely based on LAN. In view of the operational services of critical nature the entire LAN needs to be put under Comprehensive AMC. The AMC shall include the **comprehensive maintenance of entire LAN hardware** as per list given in **Annexure-1** network comprising complete optical fiber backbone layout and UTP layout of entire LAN including underground cables repair/replacement of these items with digging and resurfacing wherever required. Repairing, replacement in case of cut/damage/fault etc. including Optical fiber cable repairing, I/O ports, RJ45 connectors, UTP cablings, patch panels, patch cords, Light Interface Unit (LIU), optical fiber and other modules etc., contained in various units mentioned in Annexure - I be the responsibility of the firm and its cost will be included in the comprehensive AMC. The comprehensive service includes preventive and corrective maintenance and free replacement of all the defective parts/devices. **Rate Contract for LAN Items (To be Procured as and When required and Rates should remain Valid for 1 Year)** as per given in **Annexure- II** is to be quoted.

Details of CAZRI LOCAL AREA NETWORK

Sl. No	Description	Quantity
1.	Fiber Optic Cable	3 Km(App.)
2.	24- Port Switch	20 Nos.
3.	8 Port Switch	10 Nos.
4.	OFC Connector	24 Nos.
5.	Media Converter External	20 Nos.
6.	Fiber Optic Module	6 Nos.
7.	Fiber Patch Cord (ST & SC)	20 Nos.

2. Rate Contract for LAN Items and Work related to LAN (Validity one Year)

S.No.	Description	Make	Unit
1.	Light Interface Unit, single port		
2.	Light Interface Unit, double port		
3.	Managed 8 UTP port Switch, 10/100/1000 Mbps		
4.	OFC 2 core (Flexible) MM		
5.	OFC 2 core (Flexible) SM		
6.	Patch Cords(OFC)1m MM		
7.	Patch Cords(OFC)2m MM		
8.	Patch Cords(OFC)3m MM		
9.	Patch Cords(OFC)1m SM		
10.	Patch Cords(OFC)2m SM		
11.	Patch Cords(OFC)3m SM		
12.	OFC Connectors		
13.	Couplers		
14.	I / O Box for Cat 6 Cable		
15.	CAT 6 UTP (Per Box Rate)		
16.	Face Plate - Single (Keystone Jack, square)		
17.	Jack Cat 6 Keystone UTP - White		
18.	Back Box for Single, Dual (Cat 5e/CAT6/CAT6A,		
19.	Patch Panel Cat 6 UTP Keystone Type-24 Port-Fully		
20.	Wall Mount single section 2 fan provision 6U*600W*500 D		
21.	40 MM ISI Mark HDPE Pipe		
22.	1.5 Inch PVC Casing Capping ISI mark		
23.	1.5 Inch PVC flexible pipe ISI mark		
24.	Soft Soil Digging & Refilling		
25.	Hard Soil/ Rock digging & Refilling		

S.No.	Description	Make	Unit
26.	Laying of PVC Conduits/ cap on casing - 1.5 "Size"		
27.	Laying of UTP Cable		
28.	Feruling, Labeling		
29.	Termination of Information Outlet		
30.	Termination of 12 & 24 Port Jack Panel		
31.	Rack Installation with Patch cord Routing		
32.	UTP Cable Testing with Scanner		
33.	Laying UTP cable per Meter Without Cat 6 Cable (Structure Cabling)		
34.	PVC pipe for fiber or UTP (1"/2"/3" diameter)		
35.	Laying With conduit / Batten per Meter		
36.	Laying Without conduit / Batten per Meter		
37.	Patch Panel of 24 Port		
38.	OFC Termination		
39.	Tracing of OFC breakdown (Including OTDR and		
40.	Fault detection/Digging/Splicing/ LIU Box/OFC (Bundled job)		
41.	Splicing of OFC per core		

Patch Panel: 24 Port Jack panel with metal frame having 1.6 mm mild steel chassis 19"x6.10" rack mount frame 1 U Fully powder coated and RJ 45 UTP module, unshielded RJ-45 port jack.

Structured Cabling: The firm should follow all parameters while implementing structured cabling.

Details of AMC for Local Area Network and Penalty Clause

- i. Each complaint must be attended and fixed on same day within working hours. If the component needs time for repairing or replacement then an alternate temporary arrangement must be made by the company.
- ii. Where the parts/components have failed/damaged or gone into disuse due to any reason, replacement of those parts/components shall be provided free of cost by the firm within 24 hours of the call.
- iii. Where any items/parts/components need replacement, the same shall be replaced with same make, specification and brand of items/component/part. In case the brand/model has become obsolete, the same shall be replaced with superior quality/ equivalent quality of the items/parts/components and must carry at least one year warranty.
- iv. This office will take no responsibility towards erratic power problems relating to the Electricity Boards or any other default situation of the nature beyond its control that may cause the equipment to malfunction.
- v. The details of engineers visiting at CAZRI should be provided in advance with their mobile numbers.
- vi. A complaint/ call register for booking the complaints and to keep record of the uptime of the system will be maintained by the firm and the copy of same may be provided to the Incharge AGRICULTURAL KNOWLEDGE MANAGEMENT UNIT (AKMU).
- vii. In case an equipment/machine is being taken for servicing to service centre, the firm will provide a stand by equipment and will take prior permission of the Incharge AGRICULTURAL KNOWLEDGE MANAGEMENT UNIT (AKMU) before taking the equipment out. Cost of transportation will be borne by the firm.
- viii. The firm shall maintain all the machines satisfactorily till the end of the AMC tenure and handover all inventory in good working condition to Incharge AGRICULTURAL KNOWLEDGE MANAGEMENT UNIT (AKMU), in case the AMC is not extended or is terminated.
- ix. The selected firm will not involve third party in implementation of service under this AMC.
- x. The vendor has to always maintain at least following parts as standby: Media Convertors, 8-port switches, 24-port switches, 1 m patch cord, 3 m patch cord, ST SC OFC patch cords, one bundle UTP Cable, RJ 45 connectors, etc.
- xi. The tenderer will submit a monthly report to the Incharge AGRICULTURAL KNOWLEDGE MANAGEMENT UNIT (AKMU), stating the complete list and status of well-being of the network system falling which the bill will not be considered for processing.
- xii. **Interested agencies may visit the site, if desired before quoting the rates for AMC. LAN diagram is also available at AGRICULTURAL KNOWLEDGE MANAGEMENT UNIT (AKMU).**

- xiii. All LAN equipment's on the present network will be covered under this AMC. As the AMC is of comprehensive nature, this includes maintenance /repair/replacement of existing fiber cable/ switches/media converters/UTP/fiber patch cord/UTP patch cord etc. with same or equivalent brand located throughout the campus.
- xiv. The firm has to give the complete Network Audit Report and compiled list of nodes on LAN with hardware address, users, location etc. and to provide the same to Incharge AGRICULTURAL KNOWLEDGE MANAGEMENT UNIT (AKMU) within the first month of the contract.
- xv. The firm has to ensure uninterrupted connectivity of LAN in all Divisions till end users. It includes monitoring of the Optical Fiber/UTP Segment from time to time to check proper connectivity, crimping of connectors of the network.
- xvi. The firm will, undertake cable laying activities as and when required by different departments or offices to extend network connectivity at our request based on accepted rate.

Penalty:

- i. In cases of downtime beyond those stipulated above, penalty will be automatically deducted from the quarterly payable amount.
- ii. The firm will respond to a site visit and commence repair work on the equipment within 24 hours of being notified of equipment malfunction. The firm will ensure making the faulty system usable within maximum 48 hours from the time complaint is lodged.
- iii. In case the agency fails to provide any service listed above, there would be a minimum penalty of Rs. 500/- per day for the each service affected.
- iv. Penalty to be imposed will be subject to a maximum of total value of the contract. In case of the gross negligence and downtime, security deposited by the firm can be forfeited besides immediate cancellation of the contract.
- v. In case of intermittent failure and repeated failure the system will be considered continuously down and down time penalty clause will apply accordingly.
- vi. The specification given in the list are broad ones and there could be some variation in the specification/brand/make/model. The quantity may also vary.

Terms and Condition

1. Director, CAZRI (ICAR) invites sealed quotations, in two separately sealed bids, one technical and second commercial, for ANNUAL MAINTENANCE CONTRACT OF CAZRI LOCAL AREA NETWORK. The period of the contract will be awarded for a minimum of one year. However, the same may be extended for the next one year based on satisfactory services provided by the firm and duly recommended by the Institute Internet Committee.
2. The rates are to be quoted in the Performa enclosed herewith both in words and figures. No figures or words should be overwritten. Overwritten figures or words should be scored out and re-written under full signature of the authorized signatory. Quotations that do not fulfill this condition will not be considered.
3. The firm must enclose the copy of Registration and Income Tax. Service Tax Returns for the last three years. Details of ISO Certification (if any), company profile, Income Tax Clearance Certificate and list of valued customers, if any, should accompany along with the quotation. All the documents are to be attached with Technical/pre-qualification Bid.
4. If the firm is authorized service center of companies like D-link/ Cisco etc., proof of the same to be attached.
5. The tender shall remain valid for 120 days after the date of commercial bid opening. If any bidder withdraws his tender before the said period. CAZRI shall without prejudice to any other right or remedy, be at liberty to forfeit the Bid Security.
6. The quotation must be submitted in a sealed cover. The sealed cover must be superscripted with **“TENDER FOR AMC OF LOCAL AREA NETWORK AND RATE CONTRACT FOR LAN ITEMS (VALIDITY ONE YEAR)”** due on addressed to **A.A.O(Stores)CAZRI,Jodhpur-342003 (Rajasthan)**, in a registered A.D. cover so as to reach on or before by 3.00 P.M. No responsibility whatsoever will be accepted with regard to postal delays or for wrong delivery of quotation sent by Post. It can also be dropped in the tender box kept at **A.A.O (Stores), Administrative building**, in the Institute for this purpose by the date stipulated above. Quotation received after due date will not be entertained. Technical/Pre-qualification Bid will be opened on at 3:00 PM by the constituted committee members in the presence of representatives of the firms who participated in the tender.
7. Tenders must be accompanied by 5% of Rate Quoted by (Rupees only) as Earnest Money Deposit (EMD) in form of Bank Draft only drawn in favour of Director, CAZRI payable in Jodhpur. Quotations without EMD will be summarily rejected. No interest will be paid on Earnest Money Deposit. EMD of unsuccessful tenderers will be returned in due course of time. If the quotation is accepted and firm fails to undertake the maintenance contract EMD will be forfeit.
8. The Vendors should have the capabilities to handle AMC for all brands and types of hardware and peripherals deployed at CAZRI of LAN. An indicative list is attached which is not exhaustive. Vendor should physically inspect our LAN components and quote to cover all LAN equipment's installed.
9. The Contract of **AMC and Rate Contract for LAN Items** will be given to the same firm.
10. The quantity given in **Annexure - I** is approximate which may increase or decrease.

Agreement for LAN AMC between CAZRI and Firm

Agreement: The successful tenderer will have to sign an agreement with the Institute on a non-judicial stamp paper of appropriate value before taking over the contract in which the firm will state that it will abide **Annexure – III** (Details of AMC for Local Area Network and Penalty Clause) and **Annexure – IV** (Terms and Condition) provided in tender document. The firm will follow all rules applicable to **CAZRI, ICAR**.

Termination by Default:

- (a) Institute may, without prejudice to any other remedy for breach of contract, by written notice of default sent to vendor, terminate the Contract in whole or part:
 - (a) If the vender fails to provide service/rectify the fault within the time period specified in the contract or any extension thereof granted by the Institute.
 - (b) If the vender fails to perform any other obligation (s) under the Contract.
- (b) In the event the Institute terminates the Contract in whole or in part, the Institute may procure, upon such terms and in such manner, as it deem appropriate, services similar to those undelivered for any excess costs for such similar services. However, the vender shall continue the performance of the Contract to the extent not terminated.

Applicable Law:

The contract shall be interpreted in accordance with the laws of the Union of India & will be under the jurisdiction of Court in Jodhpur, Rajasthan.

Taxes and Duties:

Vendor shall be entirely responsible for all taxes, duties, license, fees etc. incurred until delivery of the contracted services to the Institute. No tax or duty will be payable by the Institute unless specified by the vender in the price bid.

Security and Payments:

- a. The successful bidder will have to deposit Security Deposit equal to 5% of the total value of the contract further reduced to the extent of EMD which will be accordingly adjusted and also execute the contract within 30 days from the date of placement of order. If the firm fails to provide services to the satisfaction of the Institute as per the order during contract period, the contract will be cancelled and the Security Deposit will be forfeited or Bank Guarantee revoked. The Security Deposit will be released after completion of the contract to the satisfaction of the Institute. Additional Security money needs to be deposited in case more items are added in the AMC in future.
- b. Maintenance charges will be paid on quarterly basis after deduction of penalty after completion of the quarter. The payment shall be released quarterly.

Essential Eligibility Condition:

Bidders are to provide information on Technical/Pre-qualification requirements in separate sealed envelope with title **“Technical/Pre-qualification requirement”**. Price bid is to be enclosed separately with title **“Price bid of AMC of LAN & Rate Contract for LAN Items (Validity One Year)”**. Tenders satisfying the following essential conditions will only be considered for further processing. In absence of the proof of following supportive document the tender will not be considered.

- (a) The firm has to attach an undertaking that no Government / undertaking organizations have blacklisted the firm for any reason.
- (b) The Vendor should preferably be a registered firm in India.
- (c) Bidders should have successfully carried out the three AMC work of minimum value of Rs. 1.00 Lakhs, in a single order in an organization having such large infrastructure during last one year. (Certificates of satisfactory service from above three organizations must be enclosed)
- (d) The firm should have at least three years' experience in the field of maintenance of such LAN, Routers, Switches and Fiber Cable installation / Repair (Splicing) /OTDR Report generation etc.
- (e) Latest certificates of satisfactory service from the organizations where the vendors are maintaining such LAN should be attached with tender. The tenderer should have full-fledged office at Jodhpur.

Bidding Procedure

1. Bids are invited in two bid system, (1) Technical/pre-qualification bid and (2) Price bid, which shall be sealed separately by mentioning Technical bid and Price bid on the top of envelop. Both of these two envelop will be then enclosed in a single sealed envelope.
2. No Bids will be accepted after due date and time under any circumstances. This office will not be responsible for any postal/courier delay and also for reasons beyond the control of this office.
3. Technical/Pre-qualification Bid must contain the EMD for specified amount, along with complete technical details as desired by this tender. First Technical Bids of all the tender will be opened on pre scheduled date, time & venue. Technical Bids without EMD will be summarily rejected.
4. Price bid, of only successful Technical Bids, will be opened on pre scheduled date, time & venue.
5. All the bids must be accompanied by an Earnest Money Deposit of the amount of 5% of Rate quoted (Rupees only) in a form of Bankers cheque/ bank draft issued by any commercial bank in favour of Director, CARRI payable at Jodhpur. All bids must be dropped in the Tender Box kept at:

Assistant Administrative Officer (Stores)
Administrative Building,
CAZRI, Jodhpur -342003(Rajasthan)

Submission of Bid:

1. The first envelope shall be super scribed with the name of work and the words. “Technical bid/Pre-qualification bid”. The first envelope shall be opened on the date of opening of tender. The bidder should specifically provide full technical details of service offered and also shall provide full details of deviation they intend to make from the technical specifications and contract terms detailed in the Bid. No price details shall be given in this envelope. Violation to this would result invalidation of tender. The Bid Security shall be enclosed with the envelope marked “Technical bid/Pre-qualification bid”.
2. The second envelope shall be super scribed with the name of work and the words “Price Bid (Commercial Bid)”. It shall contain full details of the price & commercial conditions. Any deviation from our standard conditions shall be specifically spelt out.
3. Any deviation of any sort e.g. Technical or Commercial terms and conditions shall be specifically indicated in the Technical Bid itself.
4. Silence or use of the word “Noted” against any of the Bid conditions shall mean bidder agrees to comply with that/those conditions of Bid.

5. All offers shall be made available in hard copies as specified in the technical specifications and should be signed by the authorized signatory of the firm on all the pages of the hard copy.
6. All prices and other information in this regard having a bearing on the price shall be written both in figures and words in the prescribed offer form.
7. The bid should be submitted in the prescribed bid form of this document. All columns of the bid form should be filled. Any additional information should be enclosed separately and referred to in the relevant column of the bid form. All relevant product literature must be enclosed with the bid.
8. No bid may be modified subsequent to the deadline for submission
9. The Institute reserves the right to inspect any or all the works and satisfy itself about the quality and reliability of the service rendered before opening of the concerned vendor's price bid.

Opening of Bid:

1. CAZRI will open the Technical bids at scheduled time, date and venue in the presence of the bidders representatives who chose to attend.
2. The bidder's representatives who will be present shall sign on the paper evidencing their attendance. In the event of the specific bid opening being declared a holiday for the purchaser, the bid shall be opened at the same time and location on the next working day.
3. The bidders names, bid withdrawals, presence of bid security and such other details as the Purchaser at its discretion may consider appropriate will be announced at the bid opening.
4. The firm who have submitted the bids and whose offers are found technically suitable shall be informed of the opening date of the second envelope i.e. "Price Bid (Commercial Bid)".

Evaluation of Bids:

1. The Institute will examine the bids to determine whether they are complete, required EMD has been furnished and all relevant documents have been properly signed. Evaluation of bids shall be done based on the information furnished by the bidder. The conformity of the bids to the technical specification and commercial terms and conditions shall be examined. Responsiveness of the bid shall be determined based on the technical and financial capability of the bidder to execute the contract.
2. The Institute may examine the bids to determine,
 - a. The correctness of the information furnished by the bidder in its bid. In case any information is found to be incorrect/false, the bid shall be considered as non-responsive;

- b. The substantial responsiveness of each bid to the bidding. For purpose of these clause, a substantially responsive bid is one, which conforms to all technical specifications and terms and conditions of the bidding documents without material or commercial deviations. The Institute's determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.

Institute Right To Accept or Reject any or All Bids:

1. CAZRI reserves the right to accept or reject any bids and to annul the bidding process and reject all bids at any time prior to award of contract, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for the Institute's action.
2. The acceptance of tender, will rest with Director, CAZRI who does not bind himself to accept the lowest bid and reserves himself the right to reject any or all the tenders receive without the assignment of any reason. All the bids in which any of the prescribed conditions are not fulfilled or are incomplete in any respect are liable to be rejected.
3. Canvassing in connection with tenders is illegal and strictly prohibited and the tenders submitted by the bidders, who resort to canvassing, will be rejected.

Tender for Annual Maintenance Contract (AMC) for
Local Area Network at CAZRI, Jodhpur (Rajasthan)

(Proforma for Technical Bid)

(Please provide the following details along with documentary proof of the supporting documents as asked in eligibility criteria, without which the tender will not be considered. In case sufficient space is not available, use separate sheets):

Company Name & Address	:	
Is the EMD of 5% of quoted Amount enclosed	:	Yes/No
If yes give details	:	
D.D.No..... Dated..... for Rs.		
Company profile	:	
Service Tax Registration No.	:	
Service Tax Paid in the year 2013-14	:	
Income Tax PAN No.	:	
Total Income Tax paid in the Previous year	:	
Company Status (Prop./Pvt./Ltd.)	:	
Name of organizations and value of AMC (as per clause iv of Para11)	:	
Annual turnover in the last 3 years	:	
Registration details in State/Central Govt.	:	
No. of Engineers & Technicians in the firm	:	

What is the Infrastructure and spares support Programme	:	
List of clients along with their contact names, telephone numbers and address (tender will not be considered without this information)	:	
Present total number of such AMCs being serviced	:	
Are you authorized service provider of any reputed Company: (If yes, please give details and enclosed copy of authorization)	:	
Address of Workshop (if Any)	:	
Facility available for servicing Spares available Spares available Test equipment Test tools (Hardware/software) Any others.	:	
Is your firm certified with ISO (If yes, please enclose a copy of certification)	:	Yes/No
Any other Information	:	

Certified that the above information is correct and the firm is willing to accept all the terms and conditions of the tender document.

SIGNATURE

NAME
ADDRESS
PHONE NO.....
FAX NO.....
SEAL

Tender for Annual Maintenance Contract (AMC) for Local Area Network

(To be submitted on the letter head of the bidder and enclose in a separate envelope titled "PRICE BID")

Name and Address of the Firm quoting the rates:

SN	Name of the Service for which Price is to be quoted	Rate per year	Amount (Rs.)
1.	Comprehensive AMC of Local Area Network (LAN)		

S.No.	Description	Make	Unit
1.	Light Interface Unit, single port		
2.	Light Interface Unit, double port		
3.	Managed 8 UTP port Switch, 10/100/1000 Mbps		
4.	OFC 2 core (Flexible) MM		
5.	OFC 2 core (Flexible) SM		
6.	Patch Cords(OFC)1m MM		
7.	Patch Cords(OFC)2m MM		
8.	Patch Cords(OFC)3m MM		
9.	Patch Cords(OFC)1m SM		
10.	Patch Cords(OFC)2m SM		
11.	Patch Cords(OFC)3m SM		
12.	OFC Connectors		
13.	Couplers		
14.	I / O Box for Cat 6 Cable		
15.	CAT 6 UTP (Per Box Rate)		
16.	Face Plate - Single (Keystone Jack, square)		

S.No.	Description	Make	Unit
17.	Jack Cat 6 Keystone UTP - White		
18.	Back Box for Single, Dual (Cat 5e/CAT6/CAT6A,		
19.	Patch Panel Cat 6 UTP Keystone Type-24 Port-Fully		
20.	Wall Mount single section 2 fan provision 6U*600W*500 D		
21.	40 MM ISI Mark HDPE Pipe		
22.	1.5 Inch PVC Casing Capping ISI mark		
23.	1.5 Inch PVC flexible pipe ISI mark		
24.	Soft Soil Digging & Refilling		
25.	Hard Soil/ Rock digging & Refilling		
26.	Laying of PVC Conduits/ cap on casing - 1.5 "Size"		
27.	Laying of UTP Cable		
28.	Feruling, Labeling		
29.	Termination of Information Outlet		
30.	Termination of 12 & 24 Port Jack Panel		
31.	Rack Installation with Patch cord Routing		
32.	UTP Cable Testing with Scanner		
33.	Laying UTP cable per Meter Without Cat 6 Cable (Structure Cabling)		
34.	PVC pipe for fiber or UTP (1"/2"/3" diameter)		
35.	Laying With conduit / Batten per Meter		
36.	Laying Without conduit / Batten per Meter		

S.No.	Description	Make	Unit
37.	Patch Panel of 24 Port		
38.	OFC Termination		
39.	Tracing of OFC breakdown (Including OTDR and		
40.	Fault detection/Digging/Splicing/ LIU Box/OFC (Bundled job)		
41.	Splicing of OFC per core		

Patch Panel: 24 Port Jack panel with metal frame having 1.6 mm mild steel chassis 19"x6.10" rack mount frame 1 U Fully powder coated and RJ 45 UTP module, unshielded RJ-45 port jack.

Structured Cabling: The firm should follow all parameters while implementing structured cabling.

SIGNATURE

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NAME

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ADDRESS

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PHONE

NO.....

FAX NO.....

SEAL

