

# HIGH COURT OF MADHYA PRADESH: JABALPUR

## NOTICE INVITING e-TENDERS (NIT)

**e-Tenders** are invited for the “*Installation of Local Area Networking work and other related work in the High Court of Madhya Pradesh and Subordinate Courts (District Courts and Tehsil Courts) in the State of Madhya Pradesh*”. The online **e-tenders** must be submitted by **29<sup>th</sup> June, 2016 before 3:00 P.M.** The technical bids shall be opened on same day at **3:30 P.M.** If the date of tender submission / opening is declared as holiday then the bid shall be submitted / opened on next working day. The tender document with details of specifications, terms and conditions is available on the e-procurement portal [www.mpeproc.gov.in](http://www.mpeproc.gov.in) and also available on the website of the High Court [www.mphc.gov.in](http://www.mphc.gov.in) and Government tender portal [www.tenders.gov.in](http://www.tenders.gov.in).

**Sd/-  
REGISTRAR GENERAL**

## **HIGH COURT OF MADHYA PRADESH: JABALPUR**

NIT No.Reg(IT)(SA)/2016/

Dated:27<sup>th</sup> May, 2016

**Subject: - Installation of Local Area Networking and other related work in the High Court and Subordinate Courts in the State of Madhya Pradesh.**

Online tenders are invited for Installation of Local Area Networking work and other related work in the High Court of Madhya Pradesh and Subordinate Courts (District Courts and Tehsil Courts) in the State of Madhya Pradesh from Manufacturing Companies, reputed Bidders/Dealers, registered, bonafide, reputed, experienced and eligible firms who have executed similar nature of work in Court Premises/Government Ministries/Departments, Semi-government organizations including Public Sector Undertakings and reputed Private Organization with **05 years onsite support and warranty** on all active and passive components and satisfying all other terms and conditions of the tender document.

1. *Tender document may be viewed or purchased online by interested and eligible bidders from the website [www.mpeproc.gov.in](http://www.mpeproc.gov.in) after paying tender fee of Rs.5,000/- and Processing Fee, as applicable . The tender document is also available in website <http://www.mphc.gov.in> and Government tender portal [www.tenders.gov.in](http://www.tenders.gov.in) for reference.*
2. *Bidders can submit its tender online at [www.mpeproc.gov.in](http://www.mpeproc.gov.in) on or before the key dates given in the tender. The Physical copy of the Technical Bid along with original EMD should also be submitted at the address below latest by **3:00 PM on 29<sup>th</sup> June, 2016.***
3. *All further notifications/amendments, if any shall be posted on [www.mpeproc.gov.in](http://www.mpeproc.gov.in) , [www.tenders.gov.in](http://www.tenders.gov.in) and [www.mphc.gov.in](http://www.mphc.gov.in) only. No separate communication shall be made with individual Bidders.*

All other terms and conditions for submission of tender are contained in this document. If the date of submitting/opening of the Bid is declared as holiday then the bids shall be submitted / opened on next working day.

***The Registrar General, High Court of Madhya Pradesh, Jabalpur (M.P.) reserves the right to accept or reject any or all bids without assigning any reason thereof.***

**Address for communication:**

**Registrar General,**

**High Court of Madhya Pradesh**

**Jabalpur (M.P.), Email: [mphc@nic.in](mailto:mphc@nic.in) , Landline: 0761-2623358**

## **1. Instructions to the Tenderers /bidders:**

### **1.1 DEFINITIONS:-**

- a) **“The Employer”** or **“The Purchaser”** means the "Registrar General, High Court of Madhya Pradesh, Jabalpur" and the "District Judge" of the District Courts.
- b) **“The Bidder”** means a firm or Joint Venture or Consortium which participates in the tender and submits its proposal.
- c) **“Successful Bidder”** means the Bidder, who, after the complete evaluation process, gets the Letter of Award. The Successful Bidder shall be deemed as **“Contractor”** appearing anywhere in the document.
- d) **“The Letter of Award”** means the issue of a signed letter by the Purchaser of its intention to award the work mentioning the total Contract Value. The timeline for delivery of products and services will start from the date of issue of Letter of Award.
- e) **“The Contract”** means the agreement entered into between the Employer and the Contractor, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
- f) **“The Contractor”** means the individual or firm or OEM supplying the Goods / items and Services under this Contract.
- g) **“The Contract Price”** means the price payable to the Successful Bidder under the Letter of Award for the full and proper performance of its contractual obligations. The Contract Price shall be deemed as **“Contract Value”** appearing anywhere in the document.
- h) **“Site Acceptance Test (SAT)”** is a process of testing the contracted services provided by the Bidder at the locations specified by the Registrar General, High Court of Madhya

Pradesh. SAT comprises of Product Acceptance Tests with respect to Technical Specifications and Bill of Materials as specified in this tender, checking the installation, commissioning and integration of sub-components and integration with High Court software and acceptance of the Training at the site.

- i) **“Services”** means System Integration, Training and coordinating with the original equipment manufacturer (OEM) for installation, commissioning, system integration and maintenance for proper working of supplied equipments/items etc.
- j) **“NIT”** is the Notice Inviting Tender. It is essentially the Press Notification of the Tender.
- k) **“OEM”** - means Original Equipment Manufacturer and/or Original Software Developer.
- l) This tender is subject to availability of funds / Budget from the Government of India under e-Courts project.

1.2 The technical bid of the tender shall be invited in sealed envelope consisting of EMD. The bid will be made and put in the sealed single envelope containing the title *“Tender for Rate contract and Installation of Local Area Networking work in the High Court of Madhya Pradesh and Subordinate Courts (District Courts and Tehsil Courts) in the State of Madhya Pradesh under e-Courts project phase-II”* and addressed to **“The Registrar General, High Court of Madhya Pradesh, Jabalpur”** and the technical bid shall be submitted to the **“Receipt /Inward Section** of the High Court of M.P. **latest by 3:00 P.M , 29<sup>th</sup> June, 2016** . The technical bid of the tender shall be opened on same day at **3:30 P.M.**

1.3 **The financial bids are to be submitted online and no hard copy to be submitted along with the bid**

1.4 The date for the schedule of key events of this tender is given as under:-

Sl. No.	Events	Date
01	Date of Pre-Bid meeting	15 <sup>th</sup> June, 2016 at 11:30 A.M.
02	Last date and time of tender submission.	29 <sup>th</sup> June, 2016 before 3:00 P.M.
03	Date and time of opening of the technical bids	29 <sup>th</sup> June, 2016 at 3:30 PM.
04	Date and time of opening of the price bids	Date and time shall be communicated to all the qualified bidders.

1.5 All physical proposals have to be submitted ONLY in **HARD BOUND (Hard bound implies such binding between two covers through stitching or otherwise whereby it may not be possible to replace any paper without disturbing the document)** form with all pages sequentially numbered either at the top or at the bottom right corner of each page. It should also have an index giving page wise information of above documents. Incomplete proposal or those received without hard bound will summarily be rejected. **All the Pages and Papers to be signed and sealed by the authorized signatory of the bidder.**

## **2. Scope of Work:**

- i. The place of installation of Local Area Network and other related work will be the High Court of Madhya Pradesh and Subordinate Courts in the State of Madhya Pradesh.
- ii. It will be duty of the bidder to have the credentials of the Service Engineers/Technical Persons deputed for installation of Local Area Network work to be duly verified and certified.
- iii. The bidder shall provide Network Certified Engineer to ensure proper maintenance and management of Local Area Networking work.
- iv. The bidder shall install network by laying the cables CAT-6 level as per specifications and terms of the tender.
- v. The bidder shall install network switches with uninterrupted power supply equipments and other peripherals necessary to make the network functional.
- vi. All the Network nodes shall be connected to Network Switches by appropriate casing covered cables.
- vii. All the hardware and the material used for installation of Local Area Networking shall be of good quality and of reputed make and brand as mentioned in the tender document.
- viii. It shall be the responsibility of the bidder to ensure connectivity of every Node with the Server installed in the Computer Room of the High Court / District Courts.
- ix. Each Network switch shall have sufficient provision of additional Nodes for future requirement.
- x. The bidder shall ensure that no damage is caused to the Building / Court premises and proper repairs and finishing is to be done after installation of the Network.

## **3. Terms and Conditions for e-Tendering:-**

- 3.1** For participation in e-tendering module, it is mandatory for prospective bidders to get registration on website [www.mpeproc.gov.in](http://www.mpeproc.gov.in) . Therefore, it is advised to all

- prospective bidders to get registration by making on line registration fees payment at the earliest.
- 3.2 Tender documents can be purchased **only online** on payment of tender fees and downloaded from website [www.mpeproc.gov.in](http://www.mpeproc.gov.in) by making online payment for the tender document fee.
  - 3.3 Service and gateway charges shall be borne by the bidders.
  - 3.4 Since the bidders are required to sign their bids online using **class – III Digital Signature Certificate**, they are advised to obtain the same at the earliest.
  - 3.5 For further information regarding issue of Digital Signature Certificate, the bidders are requested to visit website [www.mpeproc.gov.in](http://www.mpeproc.gov.in) . Please note that it may take upto 7 to 10 working days for issue of Digital Signature Certificate. Department will not be responsible for delay in issue of Digital Signature Certificate.
  - 3.6 If bidder is going first time for e-tendering, then it is obligatory on the part of bidder to fulfill all formalities such as registration, obtaining Digital Signature Certificate etc. well in advance.
  - 3.7 Bidders are requested to visit e-tendering website regularly for any clarification and / or due date extension.
  - 3.8 Bidder must positively complete online e-tendering procedure at **[www.mpeproc.gov.in](http://www.mpeproc.gov.in)**
  - 3.9 Department shall not be responsible in any way for delay /difficulties /inaccessibility of the downloading facility from the website for any reason whatever.
  - 3.10 **For any type of clarification bidders can / visit [www.mpeproc.gov.in](http://www.mpeproc.gov.in) and help desk contract no. 18002588684 Mail id: [eproc\\_helpdesk@mpsdc.gov.in](mailto:eproc_helpdesk@mpsdc.gov.in) Support timings: Monday to Saturday from 10:00 AM to 7:00 PM.**
  - 3.11 Interested bidders may attend the free training programme in Bhopal at their own cost. For further query please contact help desk.
  - 3.12 The bidder who so ever is submitting the tender by his Digital Signature Certificate shall invariably upload the scanned copy of the **authority letter** as well as submit the copy of same in physical form with the offer of particular tender.
  - 3.13 The firms registered under NSIC are exempted for submission of tender fees and EMD. But they have to enclosed valid documents in this regard.
4. **Other terms and conditions:**
- i. The Bidder shall complete the installation of Local Area Network or other related work within **one month**, after the

receipt of Work Order failing which the penalty of Rs 500/- per day per work order shall be imposed.

- ii. The installation work shall be undertaken only by the Operator(s) duly authorized by the Registrar General to maintain the security of the High Court. The Bidder shall provide the list of technical persons in advance with their credentials to the Registrar General.
- iii. Tender document shall be available with the official website of the High Court i.e. [www.mphc.gov.in](http://www.mphc.gov.in) , [www.tenders.gov.in](http://www.tenders.gov.in) and **Government e-procurement portal**.
- iv. The technical bid of the tender shall be opened in the High Court of Madhya Pradesh, Jabalpur on **due and time**. One authorized representative of the bidder may remain present at the time of opening of the bids. Tender will be finalized after considering the proposals. All tenderers or any of the tenderer may be called for further negotiations before considering his/their proposal.
- v. The Registrar General shall have the absolute right to select/reject any tender for installation of Network on the basis of rate, quality and services proposed in the tender.
- vi. The bidder is required to submit **brochure(s) of the Hardware items that is proposed to be supplied and installed for Local Area Network and other related work.**
- vii. The Registrar General has the right of accepting or rejecting any or all tenders without specifying any reason(s) thereof. The Registrar General is under no obligation to accept the lowest tender.
- viii. There is no obligation on the part of the Registrar General to inform the unsuccessful Tenderer of the outcome of the Tender process and reasons for rejection of the tender.
- ix. The successful bidder shall forthwith engage/depute qualified Service Engineers/Operators to install the Local Area Network in the High Court of Madhya Pradesh and Subordinate Courts in the State of Madhya Pradesh.
- x. In case of pecuniary loss suffered by any of the users/beneficiaries of the High Court of Madhya Pradesh or Subordinate Courts attributed to the Contractor, the Registrar General will have the right to forfeit the Security



Deposit and in case the Security Deposit falls short to match the pecuniary loss being insufficient, such balance will be recovered from the payments due to the Contractor.

- xi. Rates offered in the tender will not be enhanced after acceptance of the Tender. No upward revision will be allowed under any circumstances whatsoever.
- xii. Under no circumstances, shall the bidder appoint any sub-contractor or sub-lease the contract. If it is found that the contractor has violated these conditions, the contract will be terminated forthwith without any notice, by the authority who has approved the award of the contract.
- xiii. The successful tenderer will be required to furnish security deposit of **10%** of the work order value within 15 days from the date of issue of Work Order. The security deposit shall be in the form of FDR through any nationalized bank in favour of Registrar General or unconditional Bank Guarantee of any Nationalized Bank of equal amount. The security deposit money will be refundable only after successful installation of Local Area Network. The security deposit will be forfeited if during the period of installation services of the bidder are found to be unsatisfactory in any respect.
- xiv. The work order can be terminated by the Registrar General at any point of time without assigning any reason if the work of the contractor is found unsatisfactory. In this respect, the decision of the Registrar General will be final and binding on the contractor. The Registrar General reserves the right to accept or reject any bid in whole or in part without assigning any reasons thereof.
- xv. The bills in triplicate for the work completed on the basis of approved rates shall have to be submitted in favour of the Registrar General / District and Sessions Judge, Jabalpur for effecting payment. No advance payment shall be made for the Job/Work done.
- xvi. The bidder shall submit the report of successful installation of Local Area Network or other Network related work, which shall be verified by the Officers nominated by the Registrar General after checking connectivity of every Node with the Server / Network Switch. With regard to successful installation of local area

network, the decision of Registrar General shall be final and binding.

- xvii. The job carried out shall be to the satisfaction of the Registrar General after getting certification from the In-Charge, Computer Section of the District Courts failing which deductions upto 10% of the total bill shall be made. Depending upon the severity of negligence, the Registrar General reserves the right to blacklist the agency for a suitable period or from further participation in any of the jobs to be done for the High Court of Madhya Pradesh, Jabalpur. The decision of the Registrar General shall be final and binding on the Firm.
- xviii. Premature withdrawal of the tender by the tenderer shall make him liable for forfeiture of the earnest money deposit.
- xix. **All the pages of the tender document should be serially numbered and duly stamped and signed by the bidder.**
- xx. The Registrar General reserves the right to review the performance whenever so desires, and also to terminate the Work Order at any point of time during the installation in case the performance and the service rendered by the Bidder is found to be unsatisfactory. The decision of the Registrar General shall be binding on the Bidder. The Word Order can also be terminated at any point of time if the above mentioned work is no more required.
- xxi. The Registrar General reserves the right to vary, amend or alter any terms and conditions of the Tender Document at the time of placement of work order and before executing the contract.

#### **5. Eligibility Criteria :-**

- i. The Agency / Firm applying should possess valid Income Tax PAN No. , TIN and Service Tax registration No. The Agency should have a minimum experience of 05 years in Computer Network installation work in the Government Organization, Public Sector Companies and other reputed Private Organizations.
- ii. Copies of the following documents should be submitted along with the Bid.
  - a. VAT registration

- b. Service Tax Registration and Latest Service Tax Return.
- c. Income Tax PAN card.
- d. Income Tax Return for the last three years i.e. 2013-14, 2014-15 and 2015-16.
- e. Valid ISO / ISI Certificate of the products to be installed.
- f. Documents showing the experience of Five years in providing similar work i.e Local Area Networking.
- g. The **Earnest Money Deposit (EMD) of Rs. 3,52,000/-** (Rupees Three Lakh Fifty Thousand Only) through a Demand Draft/Pay Order/ unconditional Bank Guarantee drawn in favor of Registrar General , High Court of Madhya Pradesh, Jabalpur
- h. Non-refundable **tender fees of Rs. 5000** (Rupees One Thousand only) drawn in favor of Registrar General, High Court of Madhya Pradesh.
- i. List of existing LAN installations being maintained as per details following:
 

*Name of the Company/Type of LAN being maintained/No. of nodes/Last year's turn over.*
- j. Escalation matrix for lodging the complaint during the execution of warranty period
- k. Brochures of the product with detailed specifications and MAF.
- l. The ISO 9001 certificate of the bidder.
- m. The Annual average turnover during last three financial years to be at least Rupees 60 Lakh.

## 6. **Evaluation of Bids:**

- 6.1** The Techno-Commercial Bid and price Bid will be evaluated as a package simultaneously. It must satisfy all the terms and conditions mentioned in this document and must be accompanied by all the requisite documents.

**6.2** Filling up of all the columns in Techno-Commercial Bid and Price Bid is compulsory.

**7. Earnest Money Deposit:**

The tenders should be accompanied by Earnest Money Deposit (EMD) of Rs. 3,52,000/- (Rupees Three Lakh Fifty Thousand Only) in the form of Account Payee Demand Draft / Fixed Deposit Receipt or unconditional Bank Guarantee from any of the Nationalized/Scheduled banks in an acceptable form drawn in favour of **Registrar General, High Court of Madhya Pradesh, Jabalpur** without which the tenders will not be considered. The earnest money will be returned to all the unsuccessful Tenderer after finalization of the Tender. No interest shall be paid on the Earnest Money Deposit for delay in return for any reason, whatsoever may be.

**8 SPECIFICATIONS :**

**8.1: Items with details (Bill of material)**

S.No.	Item Description	OEM Make/Part No.	Proposed make/brand by the bidder
1	UTP CAT 6 cable (Box of 305 m)	D-link/ Legrand or equivalent brand of repute	
2	24 port Patch Panel CAT 6 (each)	D-link/ Legrand or equivalent brand of repute	
3	Information Outlet CAT 6 (each)	D-link/ Legrand or equivalent brand of repute	
i	1-port	D-link/ Legrand or equivalent brand of repute	
ii	2-port	D-link/ Legrand or equivalent brand of repute	
iii	4-port	D-link/Legrand or equivalent brand of repute	
4	Patch Cords CAT 6 (each)	D-link/Legrand or equivalent brand of repute	
i	3 feet	D-link/Legrand or equivalent brand of repute	
ii	7 feet	D-link/Legrand or equivalent brand of repute	
iii	10 feet	D-link/Legrand or equivalent brand of repute	
	<b>FIBER COMPONENTS</b>		
5	<b>Fiber Optic indoor/outdoor tight buffered cable Multi mode (MM) (Per Meter)</b>	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	

i	6 core	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
ii	12 core	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
<b>6</b>	<b>Fiber Optic outdoor armoured cable Multi mode (SM) (Per Meter)</b>	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
i	6 core	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
ii	12 core	3M/ finolex /Fujitsu/ D-link/Legrand	
<b>7</b>	<b>Optical Fiber Connector SC Type, Epoxyless (each)</b>	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
i	MM	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
ii	SM	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
<b>8</b>	<b>Optical Fiber Connectors LC Type, Epoxyless (each)</b>	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
i	MM	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
ii	SM	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
<b>9</b>	<b>Optical Fiber pigtail SC Type, 1 meter (each)</b>	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
i	MM	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
ii	SM	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
<b>10</b>	<b>Optical Fiber pigtail LC Type, 1 meter (each)</b>	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
i	MM	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
ii	SM	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
iii	20 meters	3M/ finolex /Fujitsu/	

		D-link/Legrand or equivalent brand of repute	
<b>11</b>	<b>Optical Fiber Patch Cord, MM SC to SC (each)</b>	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
i	3 meters	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
ii	10 meters	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
iii	20 meters	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
<b>12</b>	<b>Optical Fiber Patch Cord, SM, SC to MTRJ (each)</b>	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
i	3 meters	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
ii	10 meters	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
iii	20 meters	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
<b>13</b>	<b>Optical Fiber Patch Cord, MM, SC to LC (each)</b>	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
i	3 meters	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
ii	10 meters	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
iii	20 meters	3M/ finolex /Fujitsu/ D-link/Legrand	
<b>14</b>	<b>Optical Fiber</b>	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
i	3 meters	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
ii	10 meters	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
iii	20 meters	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
<b>15</b>	<b>Optical Fiber Patch Cord, MM, OM-3+SC to LC (each)</b>	3M/ finolex /Fujitsu/ D-link/Legrand or	

		equivalent brand of repute	
i	3 meters	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
ii	10 meters	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
iii	20 meters	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
<b>16</b>	<b>LIU, 24 fiber, Wall mount enclosure, lockable &amp; fitted with SC/LC couplers &amp; all accessories (each)</b>	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
i	LIU WITH SC MM COUPLER	3M/ finolex /Fujitsu/ D-link/Legrand	
ii	LIU WITH SC SM COUPLER	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
iii	LIU WITH LC MM COUPLER	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
iv	LIU WITH LC SM COUPLER	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
<b>17</b>	<b>LIU, 12 fiber, 1U/ 2U drawer style 19 " Rack mount enclosure &amp; fitted with SC/LC couplers &amp; all accessories (each)</b>	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
i	LIU WITH SC MM COUPLER	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
ii	LIU WITH SC SM COUPLER	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
iii	LIU WITH LC MM COUPLER	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
iv	LIU WITH LC SM COUPLER	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute	
	<b>Installation &amp; Termination, Documentation &amp; Site Certification of UTP and Fiber Cabling</b>		
<b>18</b>	In-building laying of UTP CAT 6A/ CAT 6 Cable (Per Meter)	As per actual	
<b>19</b>	Installation & Termination or Information outlets (including termination of CAT 6/ CAT 6 Cable on I/O	As per actual	
<b>20</b>	Installation & Termination of UTP Cables on Patch Panel CAT 6/ CAT 6A with wire manager	As per actual	

21	Performance testing of the laid UTP CAT 6/ CAT 6 A (Penta Scanner reports & documentation) (Per Node)	As per actual	
22	<b>Site Certification for UTP CAT6/CAT 6A &amp; Fiber cabling with 15 years Performance warranty (Per site)</b>	As per actual	
i	Site up to 100 Nodes	As per actual	
ii	Site up to 500 Nodes	As per actual	
iii	Site up to 1000 Nodes	As per actual	
23	Supply & fixing of ISI/ISO marked PVC duct of Size (Per Meter)	ISI / ISO (OEM)	
I	15 x 15 mm	ISI / ISO (OEM)	
li	30 x 25 mm	ISI / ISO (OEM)	
lii	40 x 25 mm	ISI / ISO (OEM)	
24	Supply and fixing of PVC Conduit of OD Size (Per Meter)	ISI / ISO (OEM)	
i	20 mm	ISI / ISO (OEM)	
ii	32 mm	ISI / ISO (OEM)	
iii	40 mm	ISI / ISO (OEM)	
25	Supply & Fixing of Metal MS Cable Tray/ raceway with covers for mounting on ceiling / floor/ wall, with all connecting fittings and sections for hanging, T- Cross, L, Vertical routing/branching of cables etc, size as follows with required fitting kit & accessories for above (per running meter)	As per actual	
i	50 mm Height x 100 mm width Thickness 1.6mm		
ii	50 mm Height x 200 mm width Thickness 1.6mm		
iii	100 mm Height x 300 mm width Thickness 1.6mm		
26	Supply & Fixing of High Grade PVC cable tray/ race way with covers for mounting on ceiling / floor/ wall, with all connecting fittings & sections for hanging, T, Cross, L, vertical up/down routing. Branching of cables etc, size as follows with required fitting kit accessories for above (per running meter)		
i	50 mm Height x 150 mm width Thickness 2.5 mm to 3 mm		
ii	100 mm Height x 100 mm width 2.5 mm to 3 mm		
iii	100 mm Height x 300 mm width 2.5 mm to 3 mm		
27	Removal of Old UTP/ Fiber / coaxial RS 232/telephone cables (per Meter)		
28	In building laying of fiber in duct/ conduit (per meter)		
29	Outdoor laying of fiber cable (per Meter)		
i	Excavation and resurfacing of the Soft soil (depth 1 meter)		
ii	Excavation and resurfacing of the concrete (depth 1 meter)		
30	Supply and Installation / Fixing of GI Pipe underground and on surface		
i	1 inch diameter		



ii	1.5 inch diameter		
<b>31</b>	Supply and Installation / Fixing of 2" (Inches) diameter HDPE PVC Jacket Underground or on surface (Per Meter)		
<b>32</b>	Supply and installation/ Fixing of 4 Inch HUME pipe underground (Per Meter)		
<b>33</b>	SC/LC connector termination on fiber optic cable		
<b>34</b>	Fusion/ Mechanical splicing of SC / LC type		
<b>35</b>	Supply and installation of buffer tubing kit		
<b>36</b>	fiber optics cable route marker		
<b>37</b>	cable pulling pit made of reinforced concrete and brick walls with removable covers		
<b>38</b>	Performance testing of laid fiber Optic cable for continuity length & DB loss as per EIA/TIA - 455-60 document for FO test procedures & documentation of the results.		
	19" equipment mounting Racks		
<b>39</b>	19" Rack, wall Mount 530 mm depth, 9 U Height, (lockable) with all accessories (At least 2 cooling fan, 1 cable manager, 15A 6port spike guard)	Rittal/D-link, Valrack or equivalent brand of repute	
<b>40</b>	19" Rack, wall Mount 530 mm depth, 12 U Height, (lockable) with all accessories	Rittal/D-link, Valrack or equivalent brand of repute	
<b>41</b>	19" Rack, wall Mount 800 mm depth, 24 U Height, (lockable) with all accessories (At least 2 cooling fan, 1 cable manager, 15A 6port spike guard)	Rittal/D-link, Valrack or equivalent brand of repute	
<b>42</b>	19" Rack, wall Mount 1000 mm depth, 32 U Height, (lockable) with all accessories	Rittal/D-link, Valrack or equivalent brand of repute	
<b>43</b>	19" Rack, wall Mount 1000 mm depth, 42 U Height, (lockable) with all accessories (At least 2 cooling fan, 1 cable manager, 15A 6port spike guard)	Rittal/D-link, Valrack or equivalent brand of repute	
<b>44</b>	LAN Survey & Document Preparation		
i	for up to 100 network nodes, per node		
ii	for up to 500 network nodes, per node		
iii	for up to 1000 network nodes, per node		
iv	for more than 1000 network nodes, per node		
<b>45</b>	Blower (D-link / Eureka Forbes)	(D-link / Eureka Forbes)	
<b>46</b>	Four pair wire LAN Crimping Tool	D-link / Krone	
<b>47</b>	LAN Punching Tool	D-link / Krone	
<b>48</b>	LAN Tool Kit	D-link / Krone	
<b>49</b>	LAN Tester	D-link / Krone	
<b>50</b>	8 port Network Switches (Non-manageable )	D-link / CISCO	
<b>51</b>	*24 port Gigabit Ethernet switch with all accessories	CISCO : Model 2960X-24PS-L	

52	*24 port Gigabit Ethernet switch with all accessories	CISCO 2960X-24TC-L	
53	*24 port Ethernet switch with all accessories	CISCO : 2960 plus 24-TC-L	
54	*24 port Ethernet switch with all accessories	CISCO : 2960 plus 24-PC-L	
55	Indoor Access Point for Wireless Network With all required accessories	D-link/Netgear/Cisco	
56	*SFP modules of SM	Make: CISCO	
57	Media convertor SM	Reputed make	
58	Media convertor MM	Reputed make	

**Note:1.\* CISCO switches for compatibility with the existing LAN infrastructure of the High Court and District Courts .**

**2. All the quoted products make and model shall be finalized by the committee of the High Court**

## 8.2 Structured Cabling

8.2.1 The Bidder is required to install and commission the structured cabling involving CAT - 6 Cables, Surface Mount I/Os, Jack Panel, PVC conduit / casing / capping with accessories, any other required components such as labels, ferrules etc., and all associated civil works in accordance with the following guidelines:-

- i. Carrying out of the required surveys prior to installation work is the responsibility of the Successful Bidder, if deemed necessary.
- ii. The cabling job should be carried out under the supervision of Network Certified Engineers.
- iii. All the wiring should be fully concealed inside the conduit /casing and no cable (except patch cords) should be visible to the naked eye.
- iv. The cabling shall be properly labeled and ferruled so as to facilitate easy identification and maintenance. The labeling and ferruling shall be documented.
- v. All civil work like cutting, chasing, drilling, etc. shall be finished to ensure smooth leveled surfaces matching the existing aesthetics of the office to the extent possible.
- vi. All waste material shall be properly disposed off from the Registrar General, High Court of Madhya Pradesh premises in an environment friendly manner and complaint to applicable civil /municipal guidelines.

8.2.2 Testing, in conformance to measurement procedures and test parameters for CAT 6 installation as defined in TIA/EIA-568-B standards, of each node using a penta scanner. The **certified test results** are to be submitted to High Court of M.P., Jabalpur in hard copy.

8.2.3 Certification of each site for minimum **15 years performance warranty** based on the above test results from the manufacturer of the structured network cabling components.

8.2.4 The cabling components and the system (cables, I/Os, Patch Cords and Jack Panel) shall.

- (i) IEEE 802.3 compliant
- (ii) Conform to the TIA/EIA 568 standard
- (iii) UL listed

8.2.5 The PVC conduit / casing / capping / all accessories and other required components including labels, ferrules, and any other proposed components shall **be ISI /ISO certified**.

8.2.6 The Bidder shall provide the details (technical specifications, dimensions, brochures, make, model, photo catalogues) and conformance to standards mentioned in the tender document.

**9. The bidder has to adopt following guidelines for Cabling & Networking:-**

**9.1 Twisted Pair cable guidelines:-**

CONDITION	< 2KVA	2-5KVA	>5KVA
Unshielded power lines or electrical equipment in the proximity to open or non-metal pathways.	5 inches or 12.7 cm	12 inches or 30.5 cm	24 inches or 61 cm
Unshielded power lines or electrical equipment in the proximity to grounded metal conduit pathway.	2.5 inches or 6.4 cm	6 inches or 15.2 cm	12 inches or 30.5 cm
Power lines enclosed in a grounded metal conduit (equivalent shielding) in the proximity to grounded metal conduit pathway.		6 inches or 15.2 cm	12 inches or 30.5 cm
Fluorescent lighting.	12 inches or 30.5 cm		
Transformers & electric motors.	40 inches or 1.02 meter		

**9.2 Minimum bending radius for a cable:-**

- a. According to EIA/TIA SP-2840A the minimum-bending radius for UTP is 4 x cable outside diameter, about 1 inch. For multi-pair cable the minimum-bending radius is 10 x outside diameter.
- b. For fiber optic cables not in tension, the minimum bend radius is 10 x diameter; cables loaded in tension may not be bent at less than 20 x diameter. SP-2840A states that no fiber optic will be bent on a radius less than 3.0 cm (1.18 inches).
- c. Minimum for pulling during installation is 8 x cable diameter; minimum installed radius is 6 x cable diameter for riser cable, 4 x cable diameter for horizontal cable.

### 9.3 Do's and Don'ts for the Bidder:-

Do's	Don'ts
Use connecting hardware that is compatible with the installed cable.	Do not use connecting hardware that is of a lower category than the cable being used.
Terminate each horizontal cable on a dedicated telecommunications outlet.	Do not tap a new line from the middle of another cable (called bridge taps), as it picks up more noise. Do not leave cables un-terminated.
Locate the main cross-connect near the center of the building to limit cable distances.	Do not locate cross-connects where cable distance will exceed the maximum allowed distance.
Maintain the twist of horizontal and backbone cable pairs up to the point of terminations.	Do not leave any wire pairs untwisted (Keep the twist until the closest possible places to the terminations).
Tie and dress horizontal cables neatly and with a minimum bend radius of 4 times the cable diameter.	Do not over-tighten cables ties. Never use staples or make sharp bends with cables.
Place cabling at a sufficient distance from equipment.	Do not place cable near equipment that may generate high levels of EMI (i.e., electricity wire (power line) and fluorescent light).

#### **For running cable the bidder has to follow following rules:-**

- A. Always use more cable than you need. Leave plenty of slack.
- B. Test every part of a network as the time of installation. Even if it is brand new, it may have problems that will be difficult to isolate later.
- C. Stay at least 3 feet away from fluorescent light boxes and other sources of electrical interference.
- D. If it is necessary to run cable across the floor, cover the cable with cable protectors.
- E. Label both ends of each cable.
- F. Use cable ties (not tape) to keep cables in the same location together.
- G. The conduit or casing should not be filled completely with the cables. There should be room for future expansion.

### 9.4 UTP Cabling Installation:-

- 9.4.1 To avoid stretching, pulling tension should not exceed 110N or (25 lb f) for 4-pair cables.
- 9.4.2 Installed bend radii shall not exceed: - 4 times the cable diameter for horizontal UTP cables. -10 times the cable diameter for multi-pair backbone UTP cables.

- 9.4.3 Avoid cable stress, as caused by:- cable twist during pulling or installation – tension in suspended cable runs – tightly clinched cable ties or staples – tight bend radii.
- 9.4.4 Horizontal cables should be used with connecting hardware and patch cords (or jumpers) of the same performance category or higher.
- 9.4.5 Important Note: Installed UTP cabling shall be classified by the least performing component in the link.

## **9.5 General Guidelines to the Contractor / Bidder:-**

- 9.5.1 Tagging each network terminal for easy identification by using Numeric Tags.
- 9.5.2 Unique tag code for uplink so that it is easily identified e.g. Numeric Tag 00.
- 9.5.3 Proper Termination of Fiber Optics Cable if any use or to be used.
- 9.5.4 Stands for switches should be provided so that the switch is rack mountable.
- 9.5.5 Port of the Patch Panel should be numbered so that the node can be tracked with Numeric Tag.
- 9.5.6 I/O port should be provided and numbered accordingly.

## **9.6 Documentation to be submitted by the contractor:-**

- 9.6.1 Details Descriptive documentation of the Structural Cabling.
- 9.6.2 Test Report of the Network Cable with a comparison of test parameter with the specification parameter and variation.
- 9.6.3 Evaluation Report of the Built IT Infrastructure.
- 9.6.4 Drawings showing the location of cable runs, (preferably with individual cable lengths marked for any legacy thin Ethernet runs).

- 9.6.5 Size and occupancy of any existing cable ducts or conduits, which are available for use when expanding the network.
- 9.6.6 Details of the capacity and type of cabling and connectors used.
- 9.6.7 Details of type of connectors or sockets at either end of each cable
- 9.6.8 Records of the designation and location of outlets.
- 9.6.9 Any certification carried out on the cabling (e.g. Cat 6 test results).
- 9.6.10 Diagrams showing the relationships of various workstations, file servers, printers and other devices on the network to one another.
- 8.6.11 Diagrams showing how any hubs, bridges, switches or routers are used to connect the network (may be shown on a network management system).
- 9.6.12 Records of software licenses and versions of software installed.
- 9.6.13 Configurations of Network Interface Cards.

## **9.7 Site Certification of the Infrastructure:-**

Most important part of any infrastructure is its cabling structure on which the infrastructure would be running. There are standards to be followed by the contractor so that performance and quality assurance is guaranteed. This guarantee can also be termed as Site Certification.

There following rules to be followed by the contractor for Site Certification.

- 9.7.1 Site Certification is provided by the manufacturer against infrastructure build by the System Integrator using the standards.
- 9.7.2 Standards are typical methods that been have tested by the manufacturer according to the BISCI Standard for its quality performance.
- 9.7.3 The part products used in Structured cabling all should be of one manufacturer of certain specification throughout to have minimum tolerance.

- 9.7.4 Cable Selection should be such considering all future aspects.
- 9.7.5 Cable Selected should be used with appropriate connectors.
- 9.7.6 All cables should be concealed according to Pathways and Spaces Standards.
- 9.7.7 Test reports with the details of the loss of signal in terms of crosstalk and due to other factors affecting it.



**Annexure-I**  
**TECHNO-COMMERCIAL BID**

SI.N o.	Description	Indicate page number where the documents are enclosed
1.	Name, address & telephone number of the Bidder.	
2.	Name, designation, address & telephone number of authorized person	
3.	Please specify as to whether Tenderer is sole Proprietor/Partnership Firm/Private or Limited Company.	
4.	Name, address & telephone number of Directors/Partners, Fax No., e-mail address.	
5.	Copy of PAN Card issued by Income Tax Department and Copy of previous 3 Financial Year's Income Tax Return <u>2013-14, 2014-15 and 2015-16</u> . The average turnover of the bidder should be at least Rupees 60 Lakh during last three financial years.	
6.	Copy of Valid TIN registration details	
7.	Copy of valid ISO certification of the bidder in the LAN work	
8.	Valid ISO / ISI Certificate of the products to be supplied and installed ( <b>Please attach copy</b> )	
9.	Service Tax Registration No. (Please attach copy)	
10.	Latest Service Tax Return.	
11.	Experience Certificate / details for last <b><u>5 years</u></b> regarding installation of Local Area Networking	
12	Authorization letter / MAF from OEM's to sale the product	
13.	Details of Bid Security/Earnest Money Deposit: a) Amount: 3,52,000/- b) Demand Draft/Pay Order/Banker/Cheque No.: c) Date of issue: d) Name of issuing Bank:	
14	Details of tender fees	
15.	Furnish the list of <b>Service Engineers</b> and <b>Operators</b> to be deputed for installation of Network at High Court of Madhya Pradesh and Subordinate Courts in the State of Madhya Pradesh.	

**Declaration by the Bidder:**

This is to certify that I/We before signing this tender have read and fully understood all the terms and conditions contained in the tender document and undertake myself/ourselves to strictly abide by them.

Signature of the Tenderer with Seal

**Note: Please indicate the page numbers where documents are attached. The entire Tender documents should be serially page numbered including enclosures.**

It is certified that the particulars given above are true to the best of my/our knowledge/belief and I/We have read terms/conditions and duties/responsibilities of the Technical Staff to be deputed for the purpose and have also understood the same and to hereby undertake to abide by the same without any reservations on any grounds whatsoever. In case of any breach of the said conditions. I/We shall be responsible for the consequences arising out of such situation(s).

Name & Signature of the  
Authorized Signatory of the Agency  
(with Seal of the Agency affixed)

Date:

Place:

**Annexure-II**  
**PRICE BID**

**Detail Break up of Cost\***

**Name of the Bidder:**

S.No.	Item Description	OEM Make/Part No.	Proposed make/brand by the bidder	Unit rate per item / per work /job	VAT Tax (%) / Any other duty	Service Tax (%)	Unit Price inclusive of VAT/Service Tax
1	UTP CAT 6 cable (Box of 305 m)	D-link/ Legrand or equivalent brand of repute					
2	24 port Patch Panel CAT 6 (each)	D-link/ Legrand or equivalent brand of repute					
3	Information Outlet CAT 6 (each)	D-link/ Legrand or equivalent brand of repute					
i	1-port	D-link/ Legrand or equivalent brand of repute					
ii	2-port	D-link/ Legrand or equivalent brand of repute					
iii	4-port	D-link/Legrand or equivalent brand of repute					
4	Patch Cords CAT 6 (each)	D-link/Legrand or equivalent brand of repute					
i	3 feet	D-link/Legrand or equivalent brand of repute					
ii	7 feet	D-link/Legrand or equivalent brand of repute					
iii	10 feet	D-link/Legrand or equivalent brand of repute					
	<b>FIBER COMPONENTS</b>						
5	<b>Fiber Optic indoor/outdoor tight buffered cable Multi mode (MM) (Per Meter)</b>	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
i	6 core	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
ii	12 core	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
6	<b>Fiber Optic outdoor armoured cable Multi mode (SM) (Per Meter)</b>	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					

i	6 core	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
ii	12 core	3M/ finolex /Fujitsu/ D-link/Legrand					
<b>7</b>	<b>Optical Fiber Connector SC Type, Epoxyless (each)</b>	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
i	MM	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
ii	SM	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
<b>8</b>	<b>Optical Fiber Connectors LC Type, Epoxyless (each)</b>	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
i	MM	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
ii	SM	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
<b>9</b>	<b>Optical Fiber pigtail SC Type, 1 meter (each)</b>	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
i	MM	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
ii	SM	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
<b>10</b>	<b>Optical Fiber pigtail LC Type, 1 meter (each)</b>	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
i	MM	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
ii	SM	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand					

		of repute					
iii	20 meters	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
11	<b>Optical Fiber Patch Cord, MM SC to SC (each)</b>	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
i	3 meters	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
ii	10 meters	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
iii	20 meters	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
12	<b>Optical Fiber Patch Cord, SM, SC to MTRJ (each)</b>	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
i	3 meters	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
ii	10 meters	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
iii	20 meters	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
13	<b>Optical Fiber Patch Cord, MM, SC to LC (each)</b>	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
i	3 meters	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
ii	10 meters	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
iii	20 meters	3M/ finolex /Fujitsu/ D-link/Legrand					
14	<b>Optical Fiber</b>	3M/ finolex /Fujitsu/ D-link/Legrand or					

		equivalent brand of repute					
i	3 meters	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
ii	10 meters	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
iii	20 meters	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
<b>15</b>	<b>Optical Fiber Patch Cord, MM, OM-3+SC to LC (each)</b>	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
i	3 meters	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
ii	10 meters	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
iii	20 meters	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
<b>16</b>	<b>LIU, 24 fiber, Wall mount enclosure, lockable &amp; fitted with SC/LC couplers &amp; all accessories (each)</b>	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
i	LIU WITH SC MM COUPLER	3M/ finolex /Fujitsu/ D-link/Legrand					
ii	LIU WITH SC SM COUPLER	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
iii	LIU WITH LC MM COUPLER	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
iv	LIU WITH LC SM COUPLER	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
<b>17</b>	<b>LIU, 12 fiber, 1U/ 2U drawer style 19 " Rack mount</b>	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand					

	<b>enclosure &amp; fitted with SC/LC couplers &amp; all accessories (each)</b>	of repute					
i	LIU WITH SC MM COUPLER	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
ii	LIU WITH SC SM COUPLER	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
iii	LIU WITH LC MM COUPLER	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
iv	LIU WITH LC SM COUPLER	3M/ finolex /Fujitsu/ D-link/Legrand or equivalent brand of repute					
	<b>Installation &amp; Termination, Documentation &amp; Site Certification of UTP and Fiber Cabling</b>						
<b>18</b>	In-building laying of UTP CAT 6A/ CAT 6 Cable (Per Meter)	As per actual					
<b>19</b>	Installation & Termination or Information outlets (including termination of CAT 6/ CAT 6 Cable on I/O	As per actual					
<b>20</b>	Installation & Termination of UTP Cables on Patch Panel CAT 6/ CAT 6A with wire manager	As per actual					
<b>21</b>	Performance testing of the laid UTP CAT 6/ CAT 6 A (Penta Scanner reports & documentation) (Per Node)	As per actual					
<b>22</b>	<b>Site Certification for UTP CAT6/CAT 6A &amp; Fiber cabling with 15 years Performance warranty (Per site)</b>	As per actual					

i	Site up to 100 Nodes	As per actual					
ii	Site up to 500 Nodes	As per actual					
iii	Site up to 1000 Nodes	As per actual					
<b>23</b>	Supply & fixing of ISI/ISO marked PVC duct of Size (Per Meter)	ISI / ISO (OEM)					
I	15 x 15 mm	ISI / ISO (OEM)					
li	30 x 25 mm	ISI / ISO (OEM)					
lii	40 x 25 mm	ISI / ISO (OEM)					
<b>24</b>	Supply and fixing of PVC Conduit of OD Size (Per Meter)	ISI / ISO (OEM)					
i	20 mm	ISI / ISO (OEM)					
ii	32 mm	ISI / ISO (OEM)					
iii	40 mm	ISI / ISO (OEM)					
<b>25</b>	Supply & Fixing of Metal MS Cable Tray/ raceway with covers for mounting on ceiling / floor/ wall, with all connecting fittings and sections for hanging, T-Cross, L, Vertical routing/branching of cables etc, size as follows with required fitting kit & accessories for above (per running meter)	As per actual					
i	50 mm Height x 100 mm width Thickness 1.6mm						
ii	50 mm Height x 200 mm width Thickness 1.6mm						
iii	100 mm Height x 300 mm width Thickness 1.6mm						
<b>26</b>	Supply & Fixing of High Grade PVC cable tray/ race way with covers for mounting on ceiling / floor/ wall, with all connecting fittings & sections for hanging, T, Cross, L, vertical						



	up/down routing. Branching of cables etc, size as follows with required fitting kit accessories for above (per running meter)						
i	50 mm Height x 150 mm width Thickness 2.5 mm to 3 mm						
ii	100 mm Height x 100 mm width 2.5 mm to 3 mm						
iii	100 mm Height x 300 mm width 2.5 mm to 3 mm						
<b>27</b>	Removal of Old UTP/ Fiber / coaxial RS 232/telephone cables (per Meter)						
<b>28</b>	In building laying of fiber in duct/ conduit (per meter)						
<b>29</b>	Outdoor laying of fiber cable (per Meter)						
i	Excavation and resurfacing of the Soft soil (depth 1 meter)						
ii	Excavation and resurfacing of the concrete (depth 1 meter)						
<b>30</b>	Supply and Installation / Fixing of GI Pipe underground and on surface						
i	1 inch diameter						
ii	1.5 inch diameter						
<b>31</b>	Supply and Installation / Fixing of 2" (Inches) diameter HDPE PVC Jacket Underground or on surface (Per Meter)						
<b>32</b>	Supply and installation/ Fixing of 4 Inch HUME pipe underground (Per Meter)						
<b>33</b>	SC/LC connector termination on fiber optic cable						
<b>34</b>	Fusion/ Mechanical splicing of SC /						

	LC type						
35	Supply and installation of buffer tubing kit						
36	fiber optics cable route marker						
37	cable pulling pit made of reinforced concrete and brick walls with removable covers						
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40	19" Rack, wall Mount 530 mm depth, 12 U Height, (lockable) with all accessories	Rittal/D-link, Valrack or equivalent brand of repute					
41	19" Rack, wall Mount 800 mm depth, 24 U Height, (lockable) with all accessories (At least 2 cooling fan, 1 cable manager, 15A 6port spike guard)	Rittal/D-link, Valrack or equivalent brand of repute					
42	19" Rack, wall Mount 1000 mm depth, 32 U Height, (lockable) with all accessories	Rittal/D-link, Valrack or equivalent brand of repute					
43	19" Rack, wall Mount 1000 mm depth, 42 U Height, (lockable) with all accessories	Rittal/D-link, Valrack or equivalent brand of repute					

	(Atleast 2 cooling fan,1 cable manager, 15A 6port spike guard)						
<b>44</b>	LAN Survey & Document Preparation						
I	for up to 100 network nodes, per node						
ii	for up to 500 network nodes, per node						
iii	for up to 1000 network nodes, per node						
iv	for more than 1000 network nodes, per node						
<b>45</b>	Blower (D-link / Eureka Forbes)	(D-link / Eureka Forbes)					
<b>46</b>	Four pair wire LAN Crimping Tool	D-link / Krone					
<b>47</b>	LAN Punching Tool	D-link / Krone					
<b>48</b>	LAN Took Kit	D-link / Krone					
<b>49</b>	LAN Tester	D-link / Krone					
<b>50</b>	8 port Network Switches (Non-manageable )	D-link / CISCO					
<b>51</b>	*24 port Gigabit Ethernet switch with all accessories	CISCO : Model 2960X-24PS-L					
<b>52</b>	*24 port Gigabit Ethernet switch with all accessories	CISCO 2960X-24TC-L					
<b>53</b>	*24 port Ethernet switch with all accessories	CISCO : 2960 plus 24-TC-L					
<b>54</b>	*24 port Ethernet switch with all accessories	CISCO : 2960 plus 24-PC-L					
<b>55</b>	Indoor Access Point for Wireless Network With all required accessories	D-link/Netgear/Cisco					
<b>56</b>	*SFP modules of SM	Make: CISCO					
<b>57</b>	Media convertor SM	Reputed make					
<b>58</b>	Media convertor MM	Reputed make					

Total Bid Price (Rs) \_\_\_\_\_

In words \_\_\_\_\_

Signature of Bidder with seal \_\_\_\_\_

Name \_\_\_\_\_

Business address \_\_\_\_\_

\_\_\_\_\_

Tel. No. & Mobile No. \_\_\_\_\_

Email : \_\_\_\_\_

Place :

Date:

**Note (1) : The quantities mentioned above are indicative only. The Registrar General reserves the right to change the quantities and the configuration of items mentioned above without assigning any reason thereof.**

**(2) The payment to the vendor shall be made as per actual use of above items for the Installation of Local Area Networking and other related work.**

## **CERTIFICATES**

### ***WE CERTIFY THAT:***

1. We will not LEAK / DISCLOSE any information of High Court of Madhya Pradesh to any other institutions/organizations, bodies and also in the market on the rates less than the prices quoted by us to the High Court.
2. The rate of TAXES / DUTIES mentioned in the tender is in accordance with the provisions of the rules in all respects and the same is payable to the Government Authorities.
3. The material / items offered shall be of the **best quality** strictly in accordance with the specifications and particulars as detailed in the tender.
4. The information furnished by us in the tender are true and correct to the best of our knowledge and belief.
5. We have read and understood the rules, regulations, terms and conditions of tender as applicable from time to time and agree to abide by them.

***Authorized Signatory***  
*(Seal of the Company)*