



**BIDDER'S COPY**

**INSTRUCTIONS TO BIDDERS**

1. This document set contains the following:
 

a) Terms and conditions of the Tender	-	Pages	2 & 3
b) Details of the Firm offering this Quote	-	Page	4
c) Technical Compliance & Quotation form (Price Bid)	-	Page	5 to 24
d) NIT-T's check list copy	-	Page	25
2. The bidder's copy is for your future records. Please fill in and return only NIT-T's copy.
3. Read through the terms and conditions given and affix your signature and seal if you find them acceptable. Any deviations may be recorded. Read carefully the list of specifications that we have enclosed.
4. Fill in the questionnaire regarding the Firm.
5. The downloaded documents 'Technical Compliance Form' and 'Quotation Form (Price Bid)' should be **TYPE WRITTEN USING CAPITAL LETTERS ONLY**. At the time of filling the "Quotation Form (Price Bid)" make sure that you have not missed anything. Specify the model number & specification for each item. The form should be filled item-wise. Do not leave blank fields. If you are not quoting for a specific item, you should specify "NOT QUOTING".
6. **Do not use** ambiguous terms like "yes", "complied" or "available". Specifically mention the matching specification of the product offered by you. Make sure that you have affixed your signature with date and seal on all the documents.  
You are now ready to fill in the checklist for the documents that are duly completed and signed. Put this Filled in checklist along with the signed "Terms & Conditions Form" and "Details of the Firm offering this quote" in a Cover.
7. Please send the tenders in a sealed envelope superscribed as "QUOTATIONS AGAINST SHORT TENDER NOTIFICATION NO: 4/2008 Item No. CSG07 : Networking (Active & Passive) Components / Installation" so as to reach "The Convener/CCWC, CSG, National Institute of Technology, Tiruchirappalli - 620 015, India" on or before **May 8, 2008 at 2.30 p.m.**
8. For any further clarifications, contact by E-Mail: purchase@nitt.edu or by written request to "The Registrar, National Institute of Technology, Tiruchirappalli - 620 015"
9. DO NOT VISIT US WITHOUT OUR CONCURRENCE.

Last Date for receipt of tender at NIT-T : May 8, 2008 at 2.30 PM  
 Opening Date for Tender : May 8, 2008 at 3.30 PM

CHECKLIST TO BE FILLED IN BY BIDDER	
List of documents to be enclosed	Completed & Signed
1. Terms and Conditions form	YES / NO
2. Details of the Firm offering this Quote	YES / NO
3. NIT-T's Quotation form (Technical & Price Bid)	YES / NO
4. Other technical specifications & pamphlets	YES / NO

- Note:** 1. "Cover" should contain the following:
- a. Form of "Acceptance of Terms and Conditions".
  - b. Form of "Firms details"
  - c. Pamphlets, if any.
2. Quotation Form (Technical & Price Bid)

Please retain this page with you for your future reference.

**BIDDER'S COPY**



**"TERMS AND CONDITIONS FORM"**

**IMPORTANT : READ ALL THE FOLLOWING TERMS AND CONDITIONS AND  
SIGN THE ACCEPTANCE CLAUSE FOLLOWING IT**

1. The offers should be addressed to "The Convener/CCWC, CSG, National Institute of Technology, Tiruchirappalli 620015, India" and should be sent in a sealed envelope superscribed "**QUOTATIONS AGAINST SHORT TENDER NOTIFICATION No.: 4/2008 Item No. CSG07 : Networking (Active & Passive) Components / Installation**" so as to reach us on or before 2.30 p.m. on May 8, 2008 .
2. Each offer should be sent in a sealed cover with the tender documents. Tenders received through email or FAX will not be considered.
3. The tenders will be opened on **May 8, 2008 at 3:30 p.m.** in the presence of the vendors present with authorization letter from the respective companies / firms. Suppliers intending to attend the tender opening should intimate us in advance.
4. Full technical specifications and pamphlets should be sent along with the tenders. Offers without proper technical specifications will be rejected.
5. All offers should indicate the taxes and duties applicable, if any. Additional charges for packing, forwarding, freight, insurance etc., if any, should be clearly mentioned. Clearance at Customs will be arranged by us.
6. NIT-T is paying concessional Customs & Excise duty under Government of India Notification No.51/96 for Customs and 10/97 for Excise Duty. Currently the purchaser is paying 5% Basic Customs Duty, 2% Educational Cess on Basic Customs Duty, 1% Higher Education Cess on Educational Cess, and 4% Import Additional Duty.
7. The Institute is not authorized to issue C and D forms of Sales tax certificate.
8. In case the offered items are to be imported, the rates should be quoted in foreign currency on C.I.F. Chennai Airport basis, and it should include the Freight up to Chennai airport and the insurance cover should be up to National Institute of Technology, Tiruchirappalli. NIT-T shall pay Customs duty if any.
9. If the price quoted is in foreign currency and if the order value is more than US\$12,000 then 100% payment will be made through **Letter of Credit (LC) at sight on acceptance**. If the order value is less than US\$12,000, then 100% payment will be through a Telegraphic Transfer (TT). **The bank charges outside India should be borne by the Supplier / Beneficiary.** If the price quoted is in Indian Rupees, then 100% payment will be made only after installation and commissioning. No advance payment will be made.
10. No revision of the price bid will be allowed once the price bids are opened.
11. No increase in price will be allowed after our firm orders are placed.
12. The warranty period should be clearly mentioned. The maintenance charges (AMC) under different schemes after the expiry of the warranty should also be mentioned.
13. Quote should come from authorized dealer or distributor or reseller for each of the product quoted. An authorization letter should accompany your quote for each product quoted, otherwise it may lead to rejection.
14. The delivery period and other terms should be clearly mentioned.
15. Complete user, technical and service documentation, and spare parts catalogue are to be provided along with the supply of the item.

SIGNATURE WITH DATE

SEAL OF THE FIRM



**COMPUTER SUPPORT GROUP**

**Item No. CSG07 : Networking (Active & Passive) Components / Installation**

16. The vendors are informed that they should not call us over phone or contact us in person. All clarifications can be obtained through E-Mail/FAX/Post. Vendors shall not make attempts to establish unsolicited and unauthorised contact with us after the opening of the offers and prior to the notification of the award. Any attempt by any vendor to bring to bear extraneous pressures on us shall be sufficient reason to disqualify the vendor.
17. Delay / loss in postal transit or due to other reasons will not be NIT-T's responsibility.
18. We are not responsible for accidental opening of the covers that are not properly superscribed and sealed before the time scheduled for opening.
19. The tender should be made only on the "Technical compliance form" & "Quotation form" which is available in our website, otherwise it shall lead to rejection. The technical compliance form & Quotation form should be duly filled up (preferably **TYPE WRITTEN IN CAPITAL LETTERS**) and should clearly mention the features offered by the bidder against each specification.
20. Authorized signatory should sign on all the pages. Bids without authorized signatures will be rejected.
21. The manufacturers of the quoted make of the product must be of national / international repute and having ISO certificate.
22. **The vendors are informed that they should sign a stamp paper agreement with us, for Warranty, AMC, etc. before placing the final purchase order as per our terms & conditions and 2% of purchase order value (equipments) in the form of bank guarantee towards performance security. The bank guarantee will be returned to the supplier after the successful completion of supply, installation, and the warranty period.**
23. No Earnest Money Deposit (EMD) or processing fee is required for submitting this rate contact.
24. Failure to comply with all the terms and conditions mentioned herein would result in the tender being summarily rejected.
25. Vendors are informed that once the companies are shortlisted based on the technical specification, only then the price bids of the firms that meet NIT-T's Technical specification / requirements would be compared.
26. The rate contract period is for May 2008 to May 2009. The vendors participated in the tender are expected to renew their offers every four months i.e. on September 30, 2008 and January 30, 2009.
27. NIT-T reserves the right to modify or alter the specifications after short listing of tenderers.
28. NIT-T reserves the right to change the order quantity or split the orders among multiple vendors without assigning any reason(s) whatsoever.
29. NIT-T reserves the right to reject any or all the tenders without assigning any reasons whatsoever.

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**ACCEPTANCE**

We accept the above terms and conditions and shall comply with them strictly.

**NAME OF THE VENDOR:**

**ADDRESS :**

**SIGNATURE WITH DATE**

**SEAL OF THE FIRM**



Item No. CSG07 : Networking (Active & Passive) Components / Installation

**"DETAILS OF THE FIRM OFFERING THIS QUOTE"**

(Write or print or type in block letters and please answer all the questions)

1. Name of the firm:

2. Number of years of incorporation:

3. Nature of the company - Government / Public / Private Company / Partnership / Proprietorship:

4. Specify the number of years in this line of activity by the company: 

No. of years in this line of activity
<input type="text"/>

5. Quantity of sales and installation in the last three years for the Networking (Active & Passive) Components / Installation (on rate contract basis):

2005-2006	2006-2007	2007-2008
<input type="text"/>	<input type="text"/>	<input type="text"/>

6. Turn over in the last three years (Figures should be in Indian Rupees in Lakhs):

2005-2006	2006-2007	2007-2008
<input type="text"/>	<input type="text"/>	<input type="text"/>

7. Provide the postal address, telephone & fax numbers, and email address of the nearest service center:

8. What would be the delivery period in days from the date of placement of an official purchase order:

9. Enclose the list of educational customers to whom you have supplied and installed Networking (Active & Passive) Components / Installation with full postal address and name of the contact person with phone, FAX numbers, and E-Mail id:

10. Are you the authorized dealer or distributor or reseller for the product quoted:

SIGNATURE WITH DATE

SEAL OF THE FIRM



Short Tender Notification No. 4/2008

**COMPUTER SUPPORT GROUP**

Item No. CSG07 : Networking (Active & Passive) Components / Installation

**SCHEDULE - I**

**TECHNICAL COMPLIANCE FORM**

Type-1 : 24 Port, 1G Backbone, Managed Layer 3 Gigabit Switch

FIRM'S NAME & ADDRESS:

FIRM'S REF:

DATE :

SI #	NIT-T's specifications	Firm's Matching Specifications
1.	Make	
2.	Model	
3.	Switch Height ( RU)	
	<b>Performance</b>	
4.	Switching backplane bandwidth ( Min.48 Gbps)	
5.	Layer 2 system Throughput ( Min.35.7 Mpps)	
6.	Layer 3 system Throughput ( Min.35.7 Mpps)	
7.	Wire speed Non-blocking per port	
8.	MAC Address Table size	
9.	Hot swappable SFP port	
10.	Support for IP telephony, wireless access point	
	<b>Interface</b>	
11.	24 ports Auto sensing 10/100/1000 Base-T(RJ-45)	
12.	4 - Port 1000 Base - X SFP for fiber optics ( LX)	
	<b>Network Management</b>	
13.	Telnet, Console, HTTP,SNMP,RMON( 4groups) support	
	<b>Standards</b>	
14.	IEEE 802.1D, 802.1Q , 802.1p, 802.1w, 802.2, 802.3, 802.3i,802.3u, 802.3x, 802.3z, 802.3ab, 802.3ac, 802.3ad	
15.	Support for QoS, Access control Lists , Switch Security, 802.1p Mapping to Priority Queue, MAC Address Mapping to Priority Queue, ACL Mapping to Priority Queue, ACL Mapping to ToS/DSCP, ACL Mapping and Marking of ToS/DSCP, Switch QoS should also be VoIP aware (ability to detect IP Phones and prioritize VoIP traffic).	
16.	Power Supply - 100-240 VAC,50-60Hz	
17.	5 Years Comprehensive Warranty	

SIGNATURE WITH DATE

SEAL OF THE FIRM



Short Tender Notification No. 4/2008

**COMPUTER SUPPORT GROUP**

Item No. CSG07 : Networking (Active & Passive) Components / Installation

**SCHEDULE - I**

**TECHNICAL COMPLIANCE FORM**

Type-2: 48 Port, 1G Backbone, Managed Layer 3 Gigabit Switch

**FIRM'S NAME & ADDRESS:**

**FIRM'S REF:**

**DATE :**

SI #	NIT-T's specifications	Firm's Matching Specifications
1.	Make & Model	
2.	Switch Height ( RU)	
	<b>Performance</b>	
3.	Switching backplane bandwidth ( Min.96 Gbps)	
4.	Layer 2 system Throughput ( Min.71.4 Mbps)	
5.	Layer 3 system Throughput ( Min. 71.4 Mbps)	
6.	Wire speed Non-blocking per port	
7.	MAC Address Table size	
8.	Jumbo frames support	
9.	Hot swappable SFP port	
10.	Support for IP telephony, wireless access point	
	<b>Interface</b>	
11.	48 ports Auto sensing 10/100/1000 Base-T(RJ-45)	
12.	4 - Port 1000 Base – X SFP for fiber optics ( LX)	
	<b>Network Management</b>	
13.	Telnet, Console, HTTP,SNMP,RMON( 4groups) support	
	<b>Standards</b>	
14.	IEEE 802.1D, 802.1Q , 802.1p, 802.1w, 802.2, 802.3, 802.3l,802.3u, 802.3x, 802.3z, 802.3ab, 802.3ac, 802.3ad	
15.	Support for QoS, Access control Lists , Switch Security, 802.1p Mapping to Priority Queue, MAC Address Mapping to Priority Queue, ACL Mapping to Priority Queue, ACL Mapping to ToS/DSCP, ACL Mapping and Marking of ToS/DSCP, Switch QoS should also be VoIP aware (ability to detect IP Phones and prioritize VoIP traffic).	
16.	Power Supply - 100-240 VAC,50-60Hz	
17.	5 Years Comprehensive Warranty	

**SIGNATURE WITH DATE**

**SEAL OF THE FIRM**



Short Tender Notification No. 4/2008

NATIONAL INSTITUTE OF TECHNOLOGY  
TIRUCHIRAPPALLI - 620015

**COMPUTER SUPPORT GROUP**

Item No. CSG07 : Networking (Active & Passive) Components / Installation

**SCHEDULE - I**

**TECHNICAL COMPLIANCE FORM**

Type-3: 48 Port, 10G Backbone, Managed Layer 3 Gigabit Switch

FIRM'S NAME & ADDRESS:

FIRM'S REF:

DATE :

SI #	NIT-T's specifications	Firm's Matching Specifications
1.	Make & Model	
2.	Switch Height ( RU)	
	<b>Performance</b>	
3.	Switching backplane bandwidth ( Min. 116 Gbps)	
4.	Layer 2 system Throughput ( Min.86.3 Mbps)	
5.	Layer 3 system Throughput ( Min. 86.3 Mbps)	
6.	Wire speed Non-blocking per port	
7.	MAC Address Table size	
8.	Jumbo frames support	
9.	Hot swappable SFP port	
10.	Support for IP telephony, wireless access point	
	<b>Interface</b>	
11.	48 ports Auto sensing 10/100/1000 Base-T(RJ-45)	
12.	1 port of 10 Gig E	
	<b>Network Management Port</b>	
13.	Telnet, Console, HTTP,SNMP,RMON( 4groups) support	
	<b>Standards</b>	
14.	IEEE 802.1D, 802.1Q , 802.1p, 802.1w, 802.2, 802.3, 802.3i,802.3u, 802.3x, 802.3z, 802.3ab, 802.3ac, 802.3ad	
15.	Support for QoS, Access control Lists , Switch Security, 802.1p Mapping to Priority Queue, MAC Address Mapping to Priority Queue, ACL Mapping to Priority Queue, ACL Mapping to ToS/DSCP, ACL Mapping and Marking of ToS/DSCP, Switch QoS should also be VoIP aware (ability to detect IP Phones and prioritize VoIP traffic).	
16.	Power Supply - 100-240 VAC,50-60Hz	
17.	5 Years Comprehensive Warranty	

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Short Tender Notification No. 4/2008

NATIONAL INSTITUTE OF TECHNOLOGY  
TIRUCHIRAPPALLI - 620015

COMPUTER SUPPORT GROUP

Item No. CSG07 : Networking (Active & Passive) Components / Installation

SCHEDULE - I

QUOTATION FORM (PRICE BID)

FIRM'S NAME & ADDRESS:

FIRM'S REF:

DATE :

Sl. No.	NIT-T's specifications	Unit Price	Taxes	Delivery Period
1.	<b>Type-1: 24 Port, 1G Backbone, Managed Layer 3 Gigabit Switch</b> The switch must have Full Layer-3 24 10/100/1000 ports (RJ-45), 4-port SFP optics and one AC power supply. [same specification as quoted in the TYPE-1 technical specification]			
2.	<b>Type-2: 48 Port, 1G Backbone, Managed Layer 3 Gigabit Switch</b> The switch must have Full Layer-3 48 10/100/1000 ports (RJ-45), 4-port SFP optics and one AC power supply. [same specification as quoted in the TYPE-2 technical specification]			
3.	<b>Type-3: 48 Port, 10G Backbone, Managed Layer 3 Gigabit Switch</b> The switch must have Full Layer-3 48 10/100/1000 ports (RJ-45) with 1-slot XFP 10GbE module and one AC power supply. [same specification as quoted in the TYPE-3 technical specification]			
4.	10GbE LR XENPAK, SMF-1310nm			
5.	1000Base-LX SFP optic SMF- LC connector			
6.	Switch Software and upgrades			

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Short Tender Notification No. 4/2008

**COMPUTER SUPPORT GROUP**

Item No. CSG07 : Networking (Active & Passive) Components / Installation

**SCHEDULE- II**

**TECHNICAL COMPLIANCE & QUOTATION FORM (PRICE BID)**  
**SINGLE PAIR (COPPER) LAN EXTENDER**

FIRM'S NAME & ADDRESS:

FIRM'S REF:

DATE :

SI . #	NIT-T's specifications	Firm's Matching Specifications
	<b>SINGLE PAIR (COPPER) LAN EXTENDER</b>	
a)	Ethernet Standards: 802.3 & 802.3u	
b)	VDSL Standards : ETSI, ITU, ANSI	
c)	Ethernet port : 1 x 10/100BaseTX POTS/ISDN Splitter Port: 1 x RJ-11 VDSL port : 1 x RJ-11 Should be in build Line surge protection	
d)	Ethernet Bandwidth: 5/15/25 Mbps Auto Speed Long packet size: 1536 Bytes	
e)	Should support POTS/ISDN voice pass, Splitter on board, Surge Protection, Analog phone, Transparent bridge and Extends LAN Distance 1.9Km	
f)	VDSL LED Indication Link/Speed indication : 5M/15M/25M Ethernet LED Indication : Link/Act	
g)	VDSL frequency spectrum: Transmitter: 0.9~3.9Mhz Receiver: 4~7.9Mhz	
h)	External power Adapter Input : AC 100-240 v/50-60Hz Output : DC 5V / 1A	
i)	EMI : FCC, CE, VCCI	
j)	RoHS compliant	
k)	<b>UNIT PRICE</b>	

SIGNATURE WITH DATE

SEAL OF THE FIRM



Short Tender Notification No. 4/2008

**NATIONAL INSTITUTE OF TECHNOLOGY  
TIRUCHIRAPPALLI - 620015**

**COMPUTER SUPPORT GROUP**

Item No. CSG07 : Networking (Active & Passive) Components / Installation

**SCHEDULE- II**

**TECHNICAL COMPLIANCE & QUOTATION FORM (PRICE BID)**  
**WIRELESS – G ACCESS POINT WITH DUAL HIGH GAIN ANTENNA**

**FIRM'S NAME & ADDRESS:**

**FIRM'S REF:**

**DATE :**

SI . #	NIT-T's specifications	Firm's Matching Specifications
	<b>WIRELESS – G ACCESS POINT WITH DUAL HIGH GAIN ANTENNA</b>	
a)	Standards : IEEE 802.11b, IEEE 802.11g, IEEE 802.3, IEEE 802.3af, IEEE 802.3u, IEEE 802.3x	
b)	Network Protocol : TCP/IP	
c)	Data Rate: Up to 108 Mbps	
d)	Frequency Range: 2.4-2.4835 GHz	
e)	Channel Support 802.11 b/g: 11	
f)	Security:64-, 128-, 152-bit WEP, WPA - Wi-Fi Protected Access (WPA-TKIP/PSK/AES), 802.1x (EAP- MD5/TLS/TTLS/PEAP), MAC Address Access Control List	
g)	Antenna :Two antenna with 9 dbi gain	
h)	Operation Distance: 801.11g: Outdoor: 100 m @ 54 Mbps, 420m@6 Mps Indoor: 50 m @ 54 Mbps, 100 m @ 6 Mbps	
i)	802.11b: 63 mW (18 dBm), 40 mW (16 dBm), 32 mW (15 dBm), 23 mW (13 dBm), 10 mW (10 dBm), 6 mW (7 dBm), 1 mW (0 dBm) 802.11g: 63 mW (18 dBm), 40 mW (16 dBm), 32 mW (15 dBm), 6 mW (7 dBm), 1 mW (0 dBm)	
j)	Should Support Power Over Ethernet	
k)	Ports10/100BASE-T Ethernet LAN: RJ-45 x 1 External antenna connector: 2	
l)	<b>UNIT PRICE</b>	

**SIGNATURE WITH DATE**

**SEAL OF THE FIRM**



Short Tender Notification No. 4/2008

COMPUTER SUPPORT GROUP

Item No. CSG07 : Networking (Active & Passive) Components / Installation

SCHEDULE- II

**TECHNICAL COMPLIANCE & QUOTATION FORM (PRICE BID)**  
**FIBER ACCESSORIES & INSTALLATION**

FIRM'S NAME & ADDRESS:

FIRM'S REF:

DATE :

SI . #	NIT-T's specifications	Firm's Matching Specifications
	<b>1) Outdoor Single Mode Fibre (6 core / 12 core)</b>	
a)	Core Diameter 8-9 $\mu\text{m}$	
b)	Cladding Diameter 125 $\mu\text{m}$	
c)	Coating Fibre Diameter 250 $\mu\text{m}$	
d)	Corrugated steel tape armored, direct burial cable	
e)	Loose tube construction, Gel Filled	
f)	Aramid yarn strength member	
g)	Outer Sheath or Jacket (Material & Thickness)	
h)	Name and Country of the Manufacturer	
i)	Make and Model No	
	<b>Network Support</b>	<i>Specify the Kilometer</i>
j)	10/100 Ethernet	
k)	155 Mbps ATM	
l)	1000 Base FX	
m)	10 Giga Ethernet	
n)	CWDM GBIC	
	<b>Attenuation</b>	
o)	@ 1310 nm should be $\leq 0.38$ dB/km	
p)	@ 1550 nm should be $\leq 0.30$ dB/km	
	<b>Physical Properties</b>	
q)	Maximum tensile strength a) During Installation b) During Service	
r)	Minimum bending radius of the cable a) Loaded (Specify outer diameter) b) Unloaded (Specify outer diameter)	
s)	Crush Resistance	
t)	Impact Resistance	
u)	Kink Resistance	
v)	Torsion Resistance	

SIGNATURE WITH DATE

SEAL OF THE FIRM



Short Tender Notification No. 4/2008

COMPUTER SUPPORT GROUP

Item No. CSG07 : Networking (Active & Passive) Components / Installation

SCHEDULE- II

TECHNICAL COMPLIANCE & QUOTATION FORM (PRICE BID)  
FIBER ACCESSORIES & INSTALLATION

FIRM'S NAME & ADDRESS:

FIRM'S REF:

DATE :

Sl. #	NIT-T's specifications	Firm's Matching Specifications	
w)	Temperature a) Installation : -20°C to +70°C b) Storage : -20°C to +70°C		
x)	Water Penetration		
	<b>Cable Standards</b>		
y)	Reduced-Water-Peak Standard		
z)	GR-20-CORE		
aa)	ITU-T G.652.D		
bb)	IEC 60793-2-50 B1.3		
	List out the standards during the testing process		
cc)			
dd)			
ee)			
ff)	Note: Manufacturers Test reports for all above specified tests shall be submitted along with the bid		
	<b>Shipping Length (km)</b>		
gg)	Length of the delivery (Drum size)		
hh)	Outer diameter of the cable drum		
ii)	Width of the cable drum		
jj)	Weight per kilometer of cable		
kk)	Technical brochures enclosed		
ll)	Sample 1 Feet fibre cable to be enclosed (Separately)		
		<b>6 CORE</b>	<b>12 CORE</b>
mm)	<b>Unit Price (per meter) Upto 500 meters</b>		
nn)	<b>Unit Price (per meter) Upto 1000 meters</b>		
oo)	<b>Unit Price (per meter) Upto 1500 meters</b>		
pp)	<b>Unit Price (per meter) Upto 2000 meters</b>		
qq)	<b>Unit Price (per meter) 2000 meters+</b>		
rr)	<b>Delivery Period</b>		

SIGNATURE WITH DATE

SEAL OF THE FIRM



Short Tender Notification No. 4/2008

COMPUTER SUPPORT GROUP

Item No. CSG07 : Networking (Active & Passive) Components / Installation

SCHEDULE- II

**TECHNICAL COMPLIANCE & QUOTATION FORM (PRICE BID)**  
**FIBER ACCESSORIES & INSTALLATION**

FIRM'S NAME & ADDRESS:

FIRM'S REF:

DATE :

Sl. #	NIT-T's specifications	Firm's Matching Specifications
	<b>2) Internal/Duct Grade Premise cable Indoor Single Mode Fibre (6 core)</b>	
a)	Core Diameter 8-9 $\mu\text{m}$	
b)	Cladding Diameter 125 $\mu\text{m}$	
c)	900 $\mu\text{m}$ Tight buffered	
d)	OFNR riser rated	
e)	E Glass Yarn – Rodent Resistant	
f)	Aramid yarn strength member	
g)	Low Smoke Zero Halogen, Flame retardant jacket	
h)	Outer Sheath or Jacket (Material & thickness)	
i)	Name and Country of the Manufacturer	
j)	Make and Model No.	
	<b>Network Support</b>	<b>Specify the Kilometer</b>
k)	10/100 Ethernet	
l)	155 Mbps ATM	
m)	1000 Base FX	
n)	10G-base	
o)	CWDM GBIC / SFP	
	<b>Attenuation</b>	
p)	@ 1310 nm should be $\leq 0.38$ dB/km	
q)	@ 1550 nm should be $\leq 0.30$ dB/km	
	<b>Physical Properties</b>	
r)	Maximum tensile strength a) During Installation b) During Service	
s)	Minimum bending radius of the cable a) Loaded (Specify outer diameter) b) Unloaded (Specify outer diameter)	
t)	Crush Resistance	
u)	Impact Resistance	

SIGNATURE WITH DATE

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Short Tender Notification No. 4/2008

COMPUTER SUPPORT GROUP

Item No. CSG07 : Networking (Active & Passive) Components / Installation

SCHEDULE- II

**TECHNICAL COMPLIANCE & QUOTATION FORM (PRICE BID)**  
**FIBER ACCESSORIES & INSTALLATION**

FIRM'S NAME & ADDRESS:

FIRM'S REF:

DATE :

Sl. #	NIT-T's specifications	Firm's Matching Specifications
v)	Kink Resistance	
w)	Torsion Resistance	
x)	Temperature a) Installation : -20°C to +70°C b) Storage : -20°C to +70°C	
	<b>Standards &amp; Testing</b>	
y)	GR-20-CORE	
z)	ITU-T Recommendation G.652 and G.652C	
aa)	IEC 793-1: 1992, Category B 1.1	
bb)	EN 188 000	
	UL Listing NEC/CEC:	
	Flame Test:	
	List out the standards during the testing process	
cc)		
dd)		
ee)	Note: Manufacturers Test reports for all above specified tests shall be submitted along with the bid	
	<b>Shipping Length (km)</b>	
ff)	Length of the delivery (Drum size)	
gg)	Outer diameter of the cable drum	
hh)	Width of the cable drum	
ii)	Weight per kilometer of cable	
jj)	Technical brochures enclosed	
kk)	Separately sample 1 Feet fibre cable to be enclosed	
ss)	<b>Unit Price (per meter) Upto 500 meters</b>	
tt)	<b>Unit Price (per meter) Upto 1000 meters</b>	
uu)	<b>Unit Price (per meter) Upto 1500 meters</b>	
vv)	<b>Unit Price (per meter) Upto 2000 meters</b>	
ww)	<b>Unit Price (per meter) 2000 meters+</b>	
xx)	<b>Delivery Period</b>	

SIGNATURE WITH DATE

SEAL OF THE FIRM



Short Tender Notification No. 4/2008

COMPUTER SUPPORT GROUP

Item No. CSG07 : Networking (Active & Passive) Components / Installation

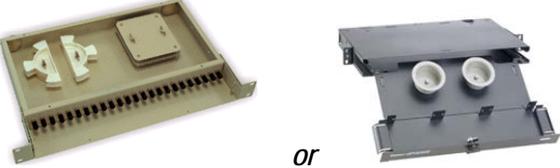
SCHEDULE- II

TECHNICAL COMPLIANCE & QUOTATION FORM (PRICE BID)  
FIBER ACCESSORIES & INSTALLATION

FIRM'S NAME & ADDRESS:

FIRM'S REF:

DATE :

Sl. #	NIT-T's specifications	Firm's Matching Specifications
	 <p style="text-align: center;"><i>or</i></p>	
3.	Rack Mount Enclosure(Size 1U Sliding Drawer) 24 Port Make & Model – Unit Price	
a)	<i>No of Adapter panels: 1 / 2</i>	
b)	<i>Should support SC Simplex, SC Duplex, MT-RJ and LC connector</i>	
c)	<i>Rubber grommets are provided at the cable entry points for tight sealing</i>	
	<b><i>Fiber Optic Adapter Panels</i></b>	
d)	Inbuilt 24 slots for SC Adaptors a) Simplex type b) Duplex type	
	<b><i>Splice Trays</i></b>	
e)	<i>Fully cushioned splice holder containing grooves for fixing splice protection sleeves</i>	
	<b><i>Cable Spools</i></b>	
f)	<i>Flame retardant plastic, high impact resistance</i>	
g)	<i>Stackable design, sufficient room provided for storage of excess cable</i>	
h)	<b>UNIT PRICE</b>	
i)	<b>DELIVERY PERIOD</b>	

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SEAL OF THE FIRM



Short Tender Notification No. 4/2008

COMPUTER SUPPORT GROUP

Item No. CSG07 : Networking (Active & Passive) Components / Installation

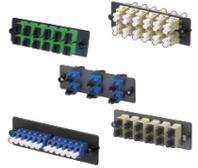
SCHEDULE- II

TECHNICAL COMPLIANCE & QUOTATION FORM (PRICE BID)  
FIBER ACCESSORIES & INSTALLATION

FIRM'S NAME & ADDRESS:

FIRM'S REF:

DATE :

Sl. #	<i>NIT-T's specifications</i>	Firm's Matching Specifications
		
4.	Wall Mount Enclosure 12 Port LIU Make & Model 24 Port LIU Make & Model	
a.	Compartment design with adaptor panel in the center	
b.	No of Adapter panels : 2	
c.	Doors enclosure with lock and key	
d.	Rubber grommets are provided at the cable entry points for tight sealing	
	<i>Fiber Optic Adapter Panels</i>	
e.	 12 /24 port SC ADAPTOR PANEL SC DUPLEX ADAPTOR PANEL	
	<i>Splice Trays</i>	
f.	Fully cushioned splice holder containing grooves for fixing splice protection sleeves	
	<i>Cable Spools</i>	
g.	Flame retardant plastic, high impact resistance	
h.	Stackable design, sufficient room provided for storage of excess cable	
i.	UNIT PRICE     12 Port LIU with Adapter Panel 24 Port LIU with Adapter Panel	
j.	DELIVERY PERIOD	

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SEAL OF THE FIRM



Short Tender Notification No. 4/2008

**COMPUTER SUPPORT GROUP**

Item No. CSG07 : Networking (Active & Passive) Components / Installation

**SCHEDULE- II**

**TECHNICAL COMPLIANCE & QUOTATION FORM (PRICE BID)**  
**FIBER ACCESSORIES & INSTALLATION**

FIRM'S NAME & ADDRESS:

FIRM'S REF:

DATE :

Sl. #	NIT-T's specifications	Firm's Matching Specifications	Unit Price
	Pass all TIA/EIA-568-B.3 performance requirements, 100% factory inspected end face geometry in compliance with Telcordia GR-326-CORE. All Single Mode fiber should be Zirconia ferrule 900 μm buffered fiber		
		SC to pigtail single mode simplex patch cord, 900μm tight buffered fiber (one SC connector on one end and open on the other end) – 9/125μm.	
5.	1 meter Part No.		
		SC to SC single mode simplex patch cord, 3mm jacketed cable (one SC connector on each end) – 9/125μm	
6.	1 meter Part No.		
7.	3 meter Part No.		
8.	5 meter Part No.		
		SC to LC single mode simplex patch cord, 1.6mm jacketed cable (one SC connector on one end and one LC connector on the other end) – 9/125μm.	
9.	1 meter Part No.		
10.	3 meter Part No.		
11.	5 meter Part No.		
		LC to LC single mode simplex patch cord, 1.6mm jacketed cable (one LC connector on each end) – 9/125μm.	
12.	1 meter Part No.		
13.	3 meter Part No.		
14.	5 meter Part No.		
		SC to pigtail 6/12 strand fiber optic cable (6/12 SC connectors on one end and open on the other end on distribution cable) – 9/125μm.	
15.	Fan - out cords 6 strand Part No.		
16.	Fan - out cords 12 strand Part No.		
		SC to SC single mode duplex patch cord, 3mm jacketed cable (two SC connectors on each end) – 9/125μm.	
17.	1 meter Part No.		
18.	3 meter Part No.		
		SC to LC single mode duplex patch cord, 1.6mm jacketed cable (two SC connectors on one end and one duplex LC connector on the other end) - 9/125μm.	
19.	1 meter Part No.		
20.	3 meter Part No.		

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Short Tender Notification No. 4/2008

COMPUTER SUPPORT GROUP

Item No. CSG07 : Networking (Active & Passive) Components / Installation

SCHEDULE- II

TECHNICAL COMPLIANCE & QUOTATION FORM (PRICE BID)  
FIBER ACCESSORIES & INSTALLATION

FIRM'S NAME & ADDRESS:

FIRM'S REF:

DATE :

Sl. #	NIT-T's specifications	Firm's Matching Specifications	UNIT Price
21.	Permanently Lubricated 1" HDPE Pipe with 4mm pre-installed nylon rope.  <i>Make</i> <i>Model</i> Specify inner and outer diameter ( in mm) Packing Length (in meters)  <i>ISI Certification number / DOT Specification number</i>		(500 Meters)
			(1000 Meters)
			(1500 Meters)
			(2000 Meters)
22.	<i>Warning Tape ( Polyethylene - 9" width and 40 Micron Thickness ) with bold printed Matter of 150 character per meter.</i>		(500 Meters)
			(1000 Meters)
			(1500 Meters)
			(2000 Meters)
23.	<i>Plastic Coupler for 1" HDPE Pipe</i>		
24.	<i>Plastic End Cap for 1" HDPE Pipe</i>		
25.	<i>Cable Sealing Plug for 1" Pipe</i>		

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Short Tender Notification No. 4/2008

**NATIONAL INSTITUTE OF TECHNOLOGY  
TIRUCHIRAPPALLI - 620015**

**COMPUTER SUPPORT GROUP**

Item No. CSG07 : Networking (Active & Passive) Components / Installation

**SCHEDULE- II**

**TECHNICAL COMPLIANCE & QUOTATION FORM (PRICE BID)**  
**FIBER ACCESSORIES & INSTALLATION**

FIRM'S NAME & ADDRESS:

FIRM'S REF:

DATE :

Sl. No.	<i>NIT-T's Specification</i>	Firm's Matching Specification with Unit Price ( Per Meter)
1.	<b>Labour charges:</b> <b>Digging of soft soil</b> (3 feet Depth and 1 feet width) and refilling of trenches <b>Supplying and filling</b> 4 inches for 1 feet width of river sand in the trenches (before HDPE Pipe / Cable laying) <b>Supplying and fixing</b> of 9" width, 36" Length, 1" thickness of RCC Semi Circular Slab (after cable laying) <b>Supply and Laying of Warning Tape of 9" width</b>	
2.	<b>Digging of Hard soil</b> (3 feet Depth and 1 feet width) and refilling of trenches. <b>Supplying and filling</b> 4 inches of river sand in the trenches (before HDPE Pipe / cable laying) <b>Supplying and fixing</b> of 9" width, 36" Length, 1" thickness of RCC Semi Circular Slab (after cable laying) <b>Supply and Laying of Warning Tape of 9" width</b>	
3.	<b>HDPE Pipe Laying</b>	
4.	<b>Fiber Cable Laying</b> (inserting the cable in HDPE pipe)	
5.	<b>Supplying and Fixing</b> of RCC Route Marker 12" breadth, 24" Height, 2" width with engrave "CSG/NIT-T- FOC" Route Marker (after cable laying)	
<b>Note :</b> 1. Fiber Optic Cable and HDPE Pipe will be supplied by NIT-T. 2. The Awardee / contractor should register the names of labourers with the District Labour Welfare Office and the Awardee / contractor should file the documents related to labour laws (the form prescribed by the District Labour Officer) and fees / charges to be paid to District Labour Welfare Office is the responsibility of the Awardee / contractor. Photocopies of the relevant documents should be submitted before the commencing of work.		

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SEAL OF THE FIRM



Short Tender Notification No. 4/2008

COMPUTER SUPPORT GROUP

Item No. CSG07 : Networking (Active & Passive) Components / Installation

SCHEDULE- II

TECHNICAL COMPLIANCE & QUOTATION FORM (PRICE BID)  
FIBER ACCESSORIES & INSTALLATION

FIRM'S NAME & ADDRESS:

FIRM'S REF:

DATE :

Sl. #	<i>NIT-T's specifications</i>	Firm's Matching Specification with Unit Price
	Termination (per fiber)	Connectors will be supplied by NIT-T, only Labor charges to be quoted
1.	Fusion Splicing	
2.	Splicing Fibers	
3.	SC Connectorization (per connector)	
4.	Fixing LIUs	
	Testing and Report (per link)	
5.	Source and Power Meter test, OTDR (Soft copy as well as Hard Copy)	
6.	Labeling & Documentation	

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SEAL OF THE FIRM



Short Tender Notification No. 4/2008

COMPUTER SUPPORT GROUP

Item No. CSG07 : Networking (Active & Passive) Components / Installation

SCHEDULE- III

TECHNICAL COMPLIANCE & QUOTATION FORM (PRICE BID)  
UTP / ETHERNET ACCESSORIES & INSTALLATION

FIRM'S NAME & ADDRESS:

FIRM'S REF:

DATE :

Sl. #	<i>NIT-T's specifications</i>	Firm's Offer (All the details should be specified)	Unit Price (in Rs.)
	Ethernet Cable and Accessories [ Comply with the Category 6 standards TIA/EIA 568-B.2-1, ISO/IEC 11801:2002 and AS/NZS 3080:2002]	<i>Make &amp; Model to be specified</i>	
1.	UTP CAT6 as per EIA / TIA CAT 6 channel performance (Box of 305 Meters)		
2.	Single Port Face Plate (85 mm x 85 mm) with CAT6 Information Outlet		
3.	Dual Port Face Plate (85 mm x 85 mm) with CAT6 Information Outlet		
4.	CAT6 Information Outlet ( Compatibility for the above mentioned Face Plate)		
5.	Single Port Face Plate (85 mm x 85 mm)		
6.	Dual Port Face Plate (85 mm x 85 mm)		
7.	Surface Mount Box (85 mm x 85 mm x 40 mm)/ Open Box White colour		
8.	1 meter Cat 6 Patch cable		
9.	2 meter Cat 6 Patch cable		
10.	3 meter Cat 6 Patch cable		
11.	5 meter Cat 6 Patch cable		
12.	10 meter Cat 6 Patch cable		

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SEAL OF THE FIRM



Short Tender Notification No. 4/2008

**NATIONAL INSTITUTE OF TECHNOLOGY  
TIRUCHIRAPPALLI - 620015**

**COMPUTER SUPPORT GROUP**

Item No. CSG07 : Networking (Active & Passive) Components / Installation - Ethernet

**SCHEDULE- III**

**TECHNICAL COMPLIANCE & QUOTATION FORM (PRICE BID)**  
**UTP / ETHERNET ACCESSORIES**

FIRM'S NAME & ADDRESS:

FIRM'S REF:

DATE :

Sl. #	<i>NIT-T's specifications</i>	Firm's Offer (All the details should be specified)	Unit Price (in Rs.)
13.	24 Port CAT6 Patch Panel 1U		
14.	48 Port CAT6 Patch Panel 2U		
15.	Cable Manager / Horizontal Cable Organizer		
16.	<b>Height 6U</b> Wall Mount Rack Cabinet [ Two Sections] – Glass Door trims powder coated, (600mm x 500mm), AC Power Distribution, front panel mounting hardware (20 Nos.)		
17.	<b>Height 9U</b> Wall Mount Rack Cabinet [ Two Sections] – Glass Door trims powder coated, (600mm x 500mm), AC Power Distribution, front panel mounting hardware (20 Nos.)		
18.	<b>Height 12U</b> Wall Mount Rack Cabinet [ Two Sections] – Glass Door trims powder coated, (600mm x 500mm), AC Power Distribution, front panel mounting hardware (30 Nos.)		
19.	<b>Height 15U</b> Wall Mount Rack Cabinet [ Two Sections] – Glass Door trims powder coated, (600mm x 500mm), AC Power Distribution, front panel mounting hardware (30 Nos.)		
20.	Floor Standing Cabinets : Height 22U, Width : 800mm, Depth : 800mm, Front – Glass Door vented, Rear – Steel door vented, equipment support angles, cooling fans, cable management accessories, AC mains channel, earth continuity kit, captive mounting hardware (50 Nos).		
21.	Floor Standing Cabinets : Height 42U, Width : 800mm, Depth : 1000mm, Front – Glass Door vented, Rear – Steel door vented, equipment support angles, cooling fans, cable management accessories, AC mains channel, earth continuity kit, captive mounting hardware (50 Nos.).		

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SEAL OF THE FIRM



Short Tender Notification No. 4/2008

COMPUTER SUPPORT GROUP

Item No. CSG07 : Networking (Active & Passive) Components / Installation

SCHEDULE- IV

TECHNICAL COMPLIANCE & QUOTATION FORM (PRICE BID)  
CASING / CAPING & ACCESSORIES

FIRM'S NAME & ADDRESS:

FIRM'S REF:

DATE :

Sl. #	<i>NIT-T's specifications</i>	Firm's Offer (All the details should be specified)	Unit Price (in Rs.)
	PVC Materials and Accessories [ Comply with ISI Standard]	<i>Make &amp; Model to be specified</i>	
1.	½" PVC Casing and Capping Pipe		
2.	1" PVC Casing and Capping Pipe		
3.	1 ½" PVC Casing and Capping Pipe		
4.	2" PVC Casing and Capping Pipe		
5.	40 mm x 40 mm PVC Cable duct / channel Un -Slotted		
6.	50 mm x 50 mm PVC Cable duct / channel Un-Slotted		
7.	¾" PVC Gray Colour Pipe		
8.	1" PVC Gray Colour Pipe		
9.	1 ¼" PVC Gray Colour Pipe		
10.	¾" PVC Gray Colour Bend		
11.	1" PVC Gray Colour Bend		
12.	1 ¼ " PVC Gray Colour Bend		
13.	¾" Three Way Junction Box		
14.	¾" Four Way Junction Box		
15.	1" Three Way Junction Box		
16.	1" Four Way Junction Box		
17.	¾" Saddle Clamp		
18.	1" Saddle Clamp		
19.	1 ¼" Saddle Clamp		
20.	¾" PVC Gray Colour Flexible Hose		
21.	1" PVC Gray Colour Flexible Hose		
22.	8 x 25 mm wooden Screw		
23.	2" kotch Screw		
24.	10 mm wooden Block		

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SEAL OF THE FIRM



Short Tender Notification No. 4/2008

**COMPUTER SUPPORT GROUP**

Item No. CSG07 : Networking (Active & Passive) Components / Installation  
**SCHEDULE- V**

**TECHNICAL COMPLIANCE & QUOTATION FORM (PRICE BID)**  
**UTP / ETHERNET INSTALLATION & TERMINATION**

FIRM'S NAME & ADDRESS:

FIRM'S REF:

DATE :

Sl. #	NIT-T's specifications	Firm's Offer (All the details should be specified) Per meter / Nos	Unit Price (in Rs.)
	<b>Labour Charges for UTP Installation</b>		
1.	Fixing of ½" PVC Casing and Capping Pipe		
2.	Fixing of 1" PVC Casing and Capping Pipe		
3.	Fixing of 1 ½" PVC Casing and Capping Pipe		
4.	Fixing of 2" PVC Casing and Capping Pipe		
5.	Fixing of 40 x 40 mm PVC Cable duct / channel		
6.	Fixing of 50 x 50 mm PVC Cable duct / channel		
7.	Fixing of ¾" PVC Pipe by saddle clamp		
8.	Fixing of 1" PVC Pipe by saddle clamp		
9.	Fixing of 1 ¼" PVC Pipe by saddle clamp		
10.	Laying of CAT 6 Cable		
11.	Fixing of Surface Mount Box and Face Plate (85 mm x 85 mm x 40 mm Open Box)		
12.	Fixing and Termination of Information Outlet		
13.	Termination of CAT6 Cable with Patch Panel		
14.	Fixing of 24 Port / 48 Port Patch Panel		
15.	Labeling and documentation		
16.	Fixing of Cable Organizer		
17.	Fixing of Network Switches		
18.	Fixing of 6U Wall Mount Rack		
19.	Fixing of 9U Wall Mount Rack		
20.	Fixing of 12U Wall Mount Rack		
21.	Fixing of 15U Wall Mount Rack		
22.	Fixing of 22U Floor Mount Rack		
23.	Fixing of 42U Floor Mount Rack		

**Terms and Conditions**

1. The above materials will be supplied by us. Measurements to be taken in presence of our staff.
2. Payment will be made after completion of the work to our satisfaction.
3. The work should be executed at the specified places. The working time will be from 09.30 am to 05.30 pm
4. The labourers employed for this work on the start of the day should only be engaged till completion of the work and they should not be changed in between at any cost.
5. Work schedule should be submitted before starting the work and the same has to be strictly adhered to and failing to adhere to the schedule will invite invoking of suitable penalty clause on you.
6. If the execution of the work is not satisfactory, the contract is liable to be cancelled.

**SIGNATURE WITH DATE**

**SEAL OF THE FIRM**



Short Tender Notification No. 4/2008  
**COMPUTER SUPPORT GROUP**

**NATIONAL INSTITUTE OF TECHNOLOGY  
 TIRUCHIRAPPALLI - 620015**

Item No. CSG07 : Networking (Active & Passive) Components / Installation

**NIT-T'S COPY (To be filled in and submitted)**

Last Date for receipt of tender at NIT-T : May 8, 2008 at 2.30 PM  
 Opening Date : May 8, 2008 at 3.30 PM

<b>CHECKLIST TO BE FILLED IN BY BIDDER</b> (Please make sure that these pages are filled and send duly signed)	
List of documents to be enclosed	Completed & Signed
1. Terms and Conditions form	YES / NO
2. Details of the Firm offering this Quote	YES / NO
3. NIT-T's quotation form (Price Bid)	YES / NO
4. Other technical specifications & pamphlets	YES / NO

SEAL OF THE BIDDER

SIGNATURE WITH DATE

<b>FOR NIT-T USE ONLY</b>	
Name of the Vendor Address (Location):	
1. Terms and Conditions form duly signed	YES / NO
2. Details of the Firm offering this Quote	YES / NO
3. NIT-T's quotation form (Price Bid)	YES / NO
4. Other technical specifications & pamphlets	YES / NO
6. No. of enclosures	
7. Status of tender	Accepted for evaluation / Rejected
	REGISTRAR

SIGNATURE WITH DATE

SEAL OF THE FIRM