

Date: 3rd October, 2013

Tender No.: IITGN/EE/LTA/2013-14/0205

Last date: 23rd October, 2013 on/before 05:00 PM

SUB: Invitation of sealed tender for Supply of "Communications Laboratory Kits for Electrical Engineering Department" as per details & specifications shown in the Annexure-I.

Dear Sir/Madam,

Indian Institute of Technology Gandhinagar invites sealed tender for **Supply of "Communications Laboratory Kits for Electrical Engineering Department"** as per details & specifications shown in the Annexure-I on the following terms & conditions:

1. If the supplier/firm is manufacturer/authorized dealer/sole distributor of any item/equipment, the Certificate to this effect should be attached.
2. The tender documents are to be in two parts as **Technical Offer and Financial offer:**
 - a.) The Technical offer should include the detailed specifications of main equipment/item and its accessories. All items should be numbered as numbered for each instrument.
 - b.) The financial offer should include the cost of main equipment/item and its accessories numbered as in (a). If there is any separate cost for installation etc. that should be quoted separately. The total cost should be quoted in words as well as figures (typed or printed). Amendment should be avoided. Amendments, if any, should be duly initialed, failing which the offers are liable to be rejected.
 - c.) The two parts of the offer should be placed in separate sealed envelopes clearly marked "**Technical Offer**" & "**Financial Offer**". These two envelopes must be enclosed for EMD and Tender Fee marked "**Tender Fee & EMD**" (total three envelopes) must be enclosed in one bigger envelope duly sealed and super scribed with tender number, name of the instrument/item and tender due date must be forwarded to the undersigned so as to reach him on or before the due date.
 - d.) The Financial Offer should be quoted in the prescribed format as per the Annexure-II only. If the financial offer is not in the prescribed format, it will be rejected.

Incomplete tenders, amendments and additions to tender after opening or late tenders are liable to be ignored and rejected.

3. Fax and Email quotation are not acceptable.

4. Quotations should be valid for 120 days from the tender due date. The quotation should clearly indicate the period of delivery, warranty terms etc. A minimum of one year warranty is required from the date of commissioning.

5. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the Quotations, wherever applicable.
6. The Suppliers may submit copies of suitable documents in support of their reputation, credentials and past performance about the product/equipment which they have supplied to premier educational Institution(s). Without these documents the tender may be rejected by the Institute.
7. The quotations should be given for the items in the same order as in the tender document.
8. The quantity shown against each item is approximate and may vary as per demand of the Institute at the time of placing order.
9. Any effort by a supplier to influence IITGN's tender evaluation, tender comparison or contract/order award decisions may result in the rejection of the supplier's tender and forfeiture of the supplier's EMD.
10. The Vendor must be able to provide the product/items within specified time period as prescribed in the Purchase Order. Failing the EMD will be forfeited. Furthermore on completion of the stipulated time period, Purchase Order will be cancelled and award will be given to another qualified bidder with the negotiated terms & conditions.
11. 100% payment will be released after completion of the supply and successful installation.
12. IIT Gandhinagar is exempt from payment of Excise Duty. Necessary certificate will be issued on demand.
13. In the event of any dispute or difference(s) between the vendee IIT Gandhinagar and the vendor(s) arising out of non-supply of material or supplies not found according to the specifications or any other cause whatsoever relating to the supply or purchase order before or after the supply has been executed, shall be referred to the concerned authority of IIT Gandhinagar who may decide the matter himself or may appoint arbitrator(s) under the arbitration and conciliation Act 1996. The decision of the arbitrator shall be final and binding on both the parties.
14. The place of arbitration and the language to be used in arbitral proceedings shall be decided by the arbitrator.
15. All disputes shall be subject to Gandhinagar Jurisdiction only.
16. IIT Gandhinagar reserves the rights to accept/reject any offer in full or in part or accept any offer other than the lowest offer without assigning any reason thereof. Any offer containing incorrect and incomplete information shall be liable for rejection.
17. The Tender/Bid will open on **25.10.2013 at 04:00 PM at IIT Gandhinagar Premises.**
 - a.) The suppliers or their authorized representative may also be present during the opening of the Technical offer, if they desire so, at their own expenses.

- b) Only those financial offers will be opened whose technical offers are found suitable by the expert committee appointed for the concerned instrument/equipment.
- c) No separate information shall be given to individual bidders. In incomparable situation, the committee may negotiate price with the qualified bidder quoting the lowest price before awarding the offer.
- d) The Tender Committee reserves its right to select or reject any or all of the Items/equipment mentioned above without assigning any reasons.

18. In case the supplier requires any elucidation regarding the tender documents, they are requested to contact to the Assistant Registrar (M.M.) through e-mail, purchase@iitgn.ac.in on or before **4:00 PM, 23.10.2013**.

19. A demand draft of **Rs.250/- (Rupees Two Hundred Fifty Only)** towards non-refundable tender fee and a demand draft of **Rs. 8,100/- (Rupees Eight Thousand One Hundred Only)** at the rate of 2% of the tender value towards refundable EMD from a Nationalized bank/Schedule bank in favour of “**IIT Gandhinagar Main Account**” payable at Ahmedabad placed in a separate envelope marked “**Tender Fee & EMD**” should accompany tender bid documents. Both the demand drafts should be valid for 90 days. Without the Tender Fee and EMD the bid will not be considered. **NSIC Certificate will not be accepted for relaxation of EMD and Tender Fee.**

The EMD of the successful bidder will be returned to them without any interest after completing the successful installation. The earnest money of unsuccessful bidders will be returned to them without any interest within thirty (30) working days after awarding the offer.

20. All tender documents should have to be forwarded through speed post or registered post, courier, Hand Delivery to the following address so as to reach the following address on/before **05:00PM, 23.10.2013.**

Assistant Registrar (M.M.)

Indian Institute of Technology Gandhinagar,
Vishwakarma Government Engineering College Campus,
Ground Floor, Block “A” ,
Visat-Gandhinagar Highway, Chandkheda
Ahmedabad 382424
Tele/ Fax No. +91 79 2397 2583

Other Terms & Conditions:

1. Pre – Qualification Criteria:

a. Bidders should be the manufacturer / authorized dealer. Letter of Authorization from Manufacturer on the same and specific to the tender should be enclosed. Manufacturer and authorized dealer both cannot bid simultaneously for the cited item as published in the tender.

b. An undertaking from the original Manufacturer is required stating that they would facilitate the bidder on a regular basis with technology/product updates and extend support for the warranty as well.

2. **Delivery:** The Equipment should be delivered and installed within the period as specified in the purchase order and be ready for use within one week of delivery unless otherwise prescribed.

3. **Penalty:** If the suppliers fails to deliver and place any or all the Equipment or perform the service by the specified date, penalty at the rate of 1% per week of the total order value subject to the maximum of 10% of total order value will be deducted.

4. **Training:** Suppliers need to provide adequate training at IIT Gandhinagar to the nominated person of IIT Gandhinagar at their cost. IIT Gandhinagar will not bear any training or living expenditure in this regard.

5. **Installation & Warranty Declaration:** Suppliers must give the comprehensive onsite warranty as required from the date of successful installation of Equipment against any manufacturing defects. In the installation report the model number of instrument and all spares parts numbers should be in the line of purchase order. And suppliers must be written in the warranty declaration that “everything to be supplied by us hereunder shall be free from all defects and faults in material, workmanship and shall be of the highest quality and material of the type ordered, shall be in full conformity with the specification and shall be complete enough to carry out the experiments, as specified in the tender document.” If any item covered under warranty fails, the same shall be replaced free of cost including all the applicable charges (shipping cost both ways). Installation must be done within One week from the date of delivery of the item/equipment.

Any deviation in the material and the specifications from the accepted terms may liable to be rejected and the suppliers need to supply all the goods in the specified form to the satisfaction / specifications specified in the Purchase order and demonstrate at the their own cost.

Sd/-

Assistant Registrar (M.M)

Form A

PARTICULARS TO BE FILLED BY THE BIDDER

1. Name of the Supplier:
2. Complete Address of the Supplier:
3. Availability for demonstration of instruments at IIT Gandhinagar: Yes / No [Please √]
4. Cost of the Tender enclosed: Yes/No [Please √] If yes,
 - a.) Name of the Bank _____
 - b.) Amount in (₹) _____
 - c.) Demand Draft No. _____
5. Earnest Money Deposit enclosed: Yes / No [Please √] if Yes,
 - a.) Name of the Bank _____
 - b.) Amount in (₹) _____
 - c.) Demand Draft No. _____
 - d.) Last Validity date of the enclosed DD _____
6. Communication details of the concerned contact person to whom all references shall be made regarding this tender enquiry. [NOTE: Any changes after submission of Tender documents kindly update IIT Gandhinagar]
 - a.) Full Name :
 - b.) Complete Postal Address:
 - c.) Telephone No.:
 - d.) Fax No.:
 - e.) Mobile No.:
 - f.) E-mail:
 - g.) Website Address:

Form B

PARTICULARS FOR REFUND OF EMD TO SUCCESSFUL/UNSUCCESSFUL BIDDER

RTGS/National Electronic Fund Transfer (NEFT) Mandate Form

1	Name of the Bidder	
2	Permanent Account No (PAN)	
3	Particulars of Bank Account	
	a) Name of the Bank	
	b) Name of the Branch	
	c) Branch Code	
	d) Address	
	e) City Name	
	f) Telephone No	
	g) NEFT/IFSC Code	
	h) RTGS Code	
	i) 9 Digit MICR Code appearing on the cheque book	
	j) Type of Account	
	k) Account No.	
4	Email id of the Bidder	

Note: - Please attach original cancelled cheque along with the RTGS/National Electronic Fund Transfer (NEFT) Mandate Form.

Annexure-I

- **Name of the item/Equipment:** -Amplitude modulation transmitter Kit
- **Quantity Required:** - 2 No.
- **Details & Specifications of the Item/Equipment:** -

Specifications	
Audio oscillator(sine wave generator)	
Frequency	200 Hz to 8 kHz
Amplitude	0 to 2 Vpp
Audio Input	Audio preamplifier with microphone input
Voltage controlled oscillator	
Output signal	Sine wave
Frequency	500 kHz to 1200 kHz
Amplitude	0 to 2 Vpp
Output Z	50Ω
AM/ DSB/ SSB/ modulator	
Modulation	Amplitude modulation, Single and Double Side band
Carrier input	1 to 1000kHz
Modulating input	0.5 to 80kHz
Carrier null and output amplitude	Adjustable
Ceramic filter	
Centre frequency	450kHz
Bandwidth	20kHz± 2KHz
Output amplifier	Gain adjustable connected to cable or antenna
Antenna	MWC coil
Switch faults	4 switch faults are provided on-board to study different effects on circuit
Interconnection	2mm banana socket
Power supply	GND,+5V,+12V, -12V

- **Name of the item/Equipment:** -Amplitude demodulation receiver Kit
- **Quantity Required:** - 2 No.
- **Details & Specifications of the Item/Equipment:** -

Specifications	
Super heterodyne receiver	
Frequency	500KHz~1.2MHz
Intermediate frequency	455KHz
Audio Input	RF signal
Output IF frequency	455KHz adjustable
IF filter	Dual tune LC
Mixer (frequency converter)	Dual Gate MOSFET
Input	Local Oscilloscope and RF
Band pass filter	455 KHz centre frequency
Voltage controlled oscillator	
Output signal	Sinewave for local oscillator input
Frequency	500 kHz to 1200 kHz
Amplitude	0 to 2 Vpp
Output Z	50Ω
1st IF and 2nd IF Amplifier	

Central frequency	455KHz
Load impedance	Variable R-L-C
Gain	40dB with automatic gain control
Diode envelope detector	Detection of the positive and negative envelope with variable RC filter DSB
Product detector	
Operating frequency	Adjustable from 425KHz~475KHz SSB
Input amplitude	1Vpp
Audio output	
Amplifier with speaker	
Audio amplifier gain	20dB
Receiving media	MW coil antenna and via cable
Switch faults	4 switch faults are provided on-board to study different effects on circuit
Interconnection	2mm banana socket
Power supply	GND,+5V,+12V, -12V

- **Name of the item/Equipment:** -Frequency modulation transmitter Kit
- **Quantity Required:** - 2 No.
- **Details & Specifications of the Item/Equipment:** -

Specifications	
Synchronous function generator	
Waveforms	500KHz~1.2MHz
Amplitude	0~ 2 Vpp variable
Frequency range	1)200Hz ~1KHz 2)2KHz ~ 8KHz
Audio input	Audio preamplifier with microphone
FM modulators	
Varactor modulator with carrier frequency adjustment FM via PM	
Operating frequency	Adjustable from 425KHz~475KHz
Input amplitude	0.1 Vpp with integration circuit for indirect frequency modulation
PM modulators	
Operating frequency	Adjustable from 425KHz~475KHz
Input amplitude	0.5 Vpp with integration circuit for indirect frequency modulation
Mixer (frequency converter)	
Dual gate MOSFET inputs	Local oscillator and RF signal
Output IF frequency	455KHz adjustable
IF filter	Dual tune LC
Transmitter output	455KHz frequency
Switch faults	4 switch faults are provided on-board to study different effects on circuit
Interconnection	2mm banana socket
Test points	29 test points are provided on board to observe intermediate signals
Power supply	GND,+5V,+12V, -12V

- **Name of the item/Equipment:** -Frequency demodulation receiver Kit
- **Quantity Required:** - 2 No.
- **Details & Specifications of the Item/Equipment:** -

Specifications	
Foster-seely	
Operating frequency	Adjustable from 425 KHz ~ 475 KHz
Input amplitude	1Vpp
Ratio discriminator detector	
Operating frequency	Adjustable from 425 KHz ~ 475 KHz
Input amplitude	1Vpp
Face lock loop detector	
Operating frequency	Adjustable from 425 KHz ~ 475 KHz
Input amplitude	1Vpp
Face detector and FM quadrature detector	
Operating frequency	Adjustable from 425KHz~475KHz
Input amplitude	1Vpp
Amplitude limiter	
Operating frequency	455KHz
Input amplitude	0.5 ~ 5 Vpp
Output limited amplitude	1.5 Vpp
Output Z	50Ω
Low pass filter	
4th order butter worth filter	
Cut-Off frequency	3.4 KHz
Audio output	
Amplifier with speaker	
Audio amplifier gain	20dB
Switch faults	4 switch faults are provided on-board to study different effects on circuit
Interconnection	2mm banana socket
Test points	29 test points are provided on board to observe intermediate signals
Power supply	GND,+5V,+12V, -12V

- **Name of the item/Equipment:** -VLSI based Digital communication training system
- **Quantity Required:** - 1 No.
- **Details & Specifications of the Item/Equipment:** -

Specifications	
Clock and signal generation section	
Sine wave	
Fixed frequency	250Hz, 500Hz, 1 KHz, 2 KHz
Variable frequency	2Hz ~ 20Hz, 0 ~ 2 Vpp
Sampling clock	
Frequency	2 KHz, 4 KHz, 8 KHz, 16 KHz, 32 KHz, 64 KHz, 128 KHz

Duty cycle	20 ~ 80% Selectable in steps of 20%
DC signal	0 ~ 5 V
Transmitter clock frequency	240 KHz fast modes
Transmitter frame frequency	8 KHz
Carrier sine waves	500 KHz (0 degree), 1MHz (0degree), 1MHz (180 degree)
Data pattern	8-bit variable NRZ-L pattern
PRBS generator	14-bit
Transmitter section	Analog signal sampling - Sample and hold - Natural sampling - Flat-top sampling
	4 channel analog time division multiplexing
	Odd, even parity and hamming code generator
	Pulse code modulation
	Data encoding NRZ (L), NRZ (M), NRZ(S), Bi-phase (Manchester), Bi-phase (Mark), Bi-phase (Space), URZ, alternate mark inversion (AMI), uni-polar to bipolar and bipolar to uni-polar
	ASK, FSK, PSK modulation
	Delta / adaptive delta / sigma delta / CVSD modulation
	Signal compression
	PAM / PPM / PWM modulation
	Audio preamplifier with microphone interface
Receiver section	2nd order and 4th order low pass Butterworth filters
	4 channel time division de-multiplexing
	PLL clock recovery
	Odd, even parity and hamming code recovery
	Single bit error detection and correction
	Pulse code demodulation
	Data decoding NRZ(L), NRZ(M), NRZ(S), Bi-phase (Manchester), Bi-phase (Mark), Bi-phase (Space), URZ, alternate mark inversion (AMI)
	ASK, FSK, PSK demodulation
	Delta / adaptive delta / sigma delta / CVSD demodulation
	Signal expander
PAM / PPM / PWM demodulation	
Audio amplifier with headphone / speaker interface	

- **Name of the item/Equipment:** -VLSI based advanced digital communication training system
- **Quantity Required:** - 1 No.
- **Details & Specifications of the Item/Equipment:** -

Specifications	
Clock and signal generation section	
Sine wave	
Fixed frequency	1KHz with 0 ~ 2V
Carrier	Synchronized carrier of 0 degree phase Synchronized carrier of 90 degree phase

	Synchronized carrier of 180 degree phase Synchronized carrier of 270 degree phase
Data pattern	8-bit, 16-bit and 24-bit
PRBS generator	16-bit with switch selectable
Noise	White noise 0 ~ 2Vpp
Transmitter clock	16 KHz, 32 KHz, 64 KHz, 128 KHz, 256 KHz , 512 KHz and 1.024 MHz
Output	4 digit, 7 segment, LED bank
Input	Three 8-bit switch banks for data generation
Transmitter section	Differential encoder
	Dibit encoder
	Tribit encoder
	Scrambler
	BPSK,DPSK modulation
	QPSK modulation
	QAM modulation
	MSK modulation
Receiver section	DPCM and ADPCM modulation
	Differential decoder
	Dibit decoder
	Tribit decoder
	Unscramble
	BPSK,DPSK demodulation
	QPSK demodulation
	QAM demodulation
	MSK demodulation
	DPCM and ADPCM demodulation
	Digital PAM
Error bit adder and inter symbol interference	
Low pass Butterworth filters	

- **Name of the item/Equipment:** -CDMA mobile communication trainer
- **Quantity Required:** - 1 No.
- **Details & Specifications of the Item/Equipment:** -

Specifications	
AC, DC power supply	
Input	AC 220V±10%
Output	DC ±12V±5%, ±5V±5%, -8V±5%
CDMA Transmitter Receiver	
Signal code speed	1kbit/s, 2kbit/s
Spread spectrum code speed	100kbit/s, 200kbit/s
Spread spectrum gain	50, 100, 200
Spread spectrum mode	direct spread spectrum
Modulation mode	PSK, DPSK
Carrier frequency	10.7MHz

- **Name of the item/Equipment:** -RFID trainer
- **Quantity Required:** - 1 No.
- **Details & Specifications of the Item/Equipment:** -

Specifications	
Communication	USB , RS-232

Operating voltage input port	5V ~ 24V DC (maximum)
Operating voltage RELAY 1,2	1A/125V AC, 2A/30V DC
Power	120V AC ~ 200V AC
Frequency range	50/60 Hz
Accessories	RFID Trainer
	Power cord
	USB Cable
	ISO1443A Tag
	ISO1443B Tag
	RS232 Cable
	CD Containing Deliverables
Experimental Manual	

- **Name of the item/Equipment:** -Bluetooth trainer
- **Quantity Required:** - 1 No.
- **Details & Specifications of the Item/Equipment:** -

Specifications	
Firmware	iWRAP interface for accessing the Bluetooth functionality from a host system and for configuring the Bluetooth parameters
	Supported profiles: SPP, DUN, OBEX OPP, HFP (v.1.5) A2DP, AVRCP, DID and HID
	Possibility to develop custom firmware
	128-bit Bluetooth encryption available for all firmware options
	Additional DSP algorithms can be loaded into the module
Hardware	Bluetooth Class 2 radio (12 ~ 24 meters)
	- Nominal output power +5 dBm
	- Nominal sensitivity -87 dBm
	- Uses 2.4 GHz ISM band
	- Based on CSR's BC05 chip
	Integrated antenna or W.FL connector
	Host processor interface via UART, USB or GPIO
	SPI interface for firmware upgrades
	10xGPIO and 2xAIO
	Fully differential analog audio inputs and outputs
	Integrated 16-bit stereo codec
	High quality -95dB Audio DAC
	Integrated battery charger
	PCM, SPDIF, I ² S interfaces for audio applications
	Supply voltage: regulated 3.3 VDC
	Power consumption with iWRA P interface:
- Link active minimum: 7mA, maximum: 70mA	
- Link active in sniff mode: 2.5mA	
- Link active in park mode: 2.5mA	
- Idle with deep sleep: 1.3mA	
PCB form factor: 23 x 16 x 3 mm	
Operating temperature: -40 degree C ~ +85 C degree	
PCM, SPDIF, I ² S interfaces for audio applications	
Accessories	EBWT Trainer
	Stereo Headphone and Mic

	RS 232 Cable
	USB Cable
	CD Containing Deliverables
	Experimental Manual
	EBWT Trainer

- **Name of the item/Equipment:** -Fiber optic communication trainer
- **Quantity Required:** - 1 No.
- **Details & Specifications of the Item/Equipment:** -

Specifications	
Transmitter	Two Siemens fiber optics LED
Transmitter 01	Peak wavelength of emission 660nm red visible (SFH756V)
Transmitter 02	Peak wavelength of emission 950nm (SFH450V)
Receiver	Two fiber optic photo detector
Receiver 01	PIN photo diode with responsivity of 0.3 μ A (SFH250V)
Receiver 02	Photo Detector with TTL Logic output (SFH551V)
On-Board Signals	
Sine Wave	- Frequency : 2Hz ~ 8KHz - Amplitude : 0 ~ 4 Vpp
TTL-Square Wave	- Frequency : 2Hz ~ 8KHz
Modulation techniques	- Direct intensity modulation - Frequency modulation - Pulse width modulation (PWM) (with variable clock 4 K z, 8 KHz, 16 KHz, and 32 KHz) - Pulse position modulation (PPM) (with variable clock 4KHz, 8 KHz, 16 KHz, and 32 KHz)
Driver Circuit	Analog and digital configuration for 660 nm and 950 nm LED
Analog/digital bandwidth	2MHz / 5MHz
Filter circuit	4th order Butterworth filters with 3.4 KHz cut-off frequency
Voice Communication	Fiber optic voice link using dynamic mike and speaker
PC TO PC Communication	PC to PC communication using 660 nm and 950 nm LED through RS-232 standard
RS-232 Port type	Two 9 pin D type connector
Baud rate	Maximum 115.2 kbps baud
Fiber optic cable	Type :plastic optical cable, step index, multimode
Core Refractive	
Index-n1	1.492
Numerical aperture	0.5
Acceptance angle	60 ^o
Fiber diameter	1000 microns
Outer diameter	2.2 mm
Fiber lengths	1 and 3 Meters
Switch Faults	8 Switch faults are provided on board to study different effects on circuit
Test Points	24 test points are provided on board to observe intermediate signals
Power supply	GND, +5V, +12V, -12V

- **Name of the item/Equipment:** -Advanced fiber optic communication trainer
- **Quantity Required:** - 1 No.
- **Details & Specifications of the Item/Equipment:** -

Specifications	
Transmitter	2 fiber optics LED
Transmitter 01	Peak wavelength of emission 950nm Infrared (SFH 450V)
Transmitter 02	Peak wavelength of emission 660nm (SFH756V)
Receiver	2 photo detector
Receiver 01	Photo transistor with responsivity of $80\mu\text{A} / \mu\text{W}$ (SFH 350V)
Receiver 02	Photo detector with TTL logic output (SFH 551V)
Modulation techniques	Digital communication with pulse code modulation (PCM) using Motorola MC145502 CODEC chip
Coding/ decoding	Manchester coding/decoding technique
Noise generator	White noise source output
Amplitude	0 ~ 5Vpp
PRBS generator	16-bit switch selectable
Clock	32 KHz, 64 KHz, 128 KHz
Bit error ratemeasurement	10-bit counter with LED indication upto 255 count
Multiplexing	Time division multiplexing, 16 channels (64 Kbits/Sec)
Frame marker	Two 8-bit user selectable markers in alternate frames
Data rate	1.024 Mbits / Sec
Voice PCM	2 channels voice PCM with telephone handsets (A Law)
Analog input	1Vpp
Analog bandwidth	300 KHz
FWHM spectral width	100 nm
PC to PC communication	PC to PC communication using 660 nm and 950 nm LED through RS-232 standard
RS-232PortType	Two 9PinD typeconnector
Baud rate	Maximum 115.2KBps Baud
Fiber optic cable	Type: plastic optical cable, stepindex,multimode
Core refractive index-n1	1.492
Clad refractive index-n2	1.406
Numerical aperture	0.50
Acceptance angle	60°
Fiber diameter	1000microns
Outer diameter	2.2mm
Numberof Fibers	4
Fiber length	1Meter,3Meter
Switch Faults	8 switch faults
Test points	45 test points
Interconnections	2mm banana sockets
Power supply	GND,+5V,+12V, -12V

Quote must have a compliance report on all the above points.

Annexure – II

FINANCIAL OFFER

FOR INDIGINEOUS SUPPLIES

Ref No.&Date: -

Tender No. : -

Due Date: -

Description of item: -

Sr. No	Description of Item & Specification(Mo del no if any)	Qty. in Units	Unit Price in Rs.	Discount (%)	Excise Duty /Custom Duty (%)	CST/ VAT (%)	Octroi (%)	Total Price in Rs.

- Delivery Mode : Delivery at IIT Gandhinagar, at site only
- Total bid price should be inclusive of all taxes and levies, transport, loading, unloading etc.
- Warranty Period:
- Delivery Period:days.
- Installation Period:.....days.
- Quotation Validity Date: - Minimum 120 Days from the date of Submission of quotation/tender.
- Payment Term: Payment within 30 working days from the date of submission clear of bill with acceptance certificate from the concerned dept./Sect./MMD.

Sign of bidder: - _____

Date: - _____

Name of the bidder:- _____

Firm's Name:- _____