

**CALL FOR QUOTATION : PROVISION OF REDUNDANT 10G OPTIC FIBRE CONNECTIVITY AT
NEW BOYS HOSTEL-I**

1. This Institute is interested in providing Redundant 10G Optic Fibre Connectivity at New Boys Hostel-I as per the following specification:-

Sr No	Item Descriptions	Make /OEM	UoM	Qty	Rate Rs	GST Rs	Total Rs
1.	50 μ , 6 core 50/125μ Outside Plant Cable- ECSS armored, Multi mode OM4 corrugated steel-tape armored, loose tube, gel filled cable as per ISO/IEC-11801	TYCO, Comm scope, Panduit (Pan net), Siemon, Legrand	Mtrs	500			
2.	Fiber Optic LC style fully loaded Patch Panel (FOPP), 19" Rack Mount with 12F nos. of OM4 50/125 μ Fully Loaded with Pigtails, Splice tray, loaded with adapter plates & splice protectors.	TYCO, Comm scope, Panduit (Pan net), Siemon, Legrand	Nos	01			
3.	Fiber Optic Patch Cable (LC-LC), 3 Mtrs. Long, ISO/IEC-11801-OM4 50 μ Duplex, LSZH	TYCO, Comm scope, Panduit (Pan net), Siemon, Legrand	Nos	04			
4	LC to MPO Patch Cord	TYCO, Comm scope, Panduit (Pan net), Siemon, Legrand	Nos	02			
5.	HDPE Pipe 1 inch	-	Mtrs	450			
6.	Fibre Laying	-	Mtrs	450			
7.	Splicing Charges	-	Nos	12			
8	9 U Rack with STD Accessories (1-PDU 5 socket, 1-metal clamp, 1nos-Hardware packet	-	Nos	01			

9	Misc items - Shedder 1/2" , Screw Box, Cable Tie	-	Nos	1 JOB			
10	Commissioning, Installations and Labours	-		1 JOB			
Total							
Amount in Words:							

Important Note :-

(A) Digging and construction of chambers for laying of Fibre Optic cable will be done by AIT itself.

(B) Fibre Optic Cable should meet minimum specifications as given below :-

- Water blocked E-glass yarn construction to prevent water absorption and consequent damages.
- Unitube type of cables.
- Suitable for using in the building shaft and outdoor laying
- Comply standards ANSI/TIA-568-C.3 / Telcordia GR-409 / EN 50173
- Meet MAX.LINK LENGTH FOR 10 GBit/s @ 850nm (10GBase-SR & SW)- 550 Mtrs / @ 1300nm (10GBase-LX4)- 300 Mtrs.
- Meet optic attenuation parameters - @ 850nm ≤ 2.7 dB/Km (MAX) , @ 1300nm ≤ 0.7 dB/Km (MAX)
- Tensile load should be 1250 Newton or higher and crush resistance should be 3000 Newton or higher
- Operating Temperature, deg. – 20 to + 70 °C
- Overall Cable diameter (Nominal) should not exceed 10 mm
- Cable Weight (Nominal) Should not exceed 100 Kg/Km
- Fiber cable shall be RoHS Compliant

(C) Fibre Optic Patch Panel (FOPP) should meet minimum specifications as given below :-

- ISO/IEC-11801-OM4 Pigtailed with LC Type Connectors.
- All accessories including coupler plates pre-loaded with duplex LC couplers (OM4), pigtailed for terminating fibers on the FOPP
- Front Patching Type, 1U high and rack mountable on standard 19" rack with mounting arrangements
- Supplied with fusion splicing sleeves for termination of fiber.
- Made of powder coated steel or aluminum
- Slide-out type drawer enclosure for Easy access to splicing tray, Easy access to back side of the connector and have labels for better identification
- Trays which facilitates easy Fiber management and greater access during installation and rework
- All necessary accessories for fiber management inside such as Fiber guides, radius controls, splice protector sleeves & secure tie downs within the FOPP

(D) Fiber Optic Patch Cable (FOPC) should meet minimum specifications as given below :-

- Shall conform to EIA/TIA-568C.3 and ISO/IEC-11801
- Duplex Multi Mode Fiber Optic Patch Cords OM4 50µ
- Tight buffer with Zirconia ferrule
- LC Connector connectors at both the ends
- Factory terminated and packed.
- RoHS Compliant
- Low-Smoke & Zero-Halogen

2. Please send your lowest quotation in two bid system format (**separate sealed envelops for Technical Bid & Commercial Bid enclosed in a sealed single envelop**) addressed to Director AIT so as to reach this institute on or before 28 Feb 18. Late quotations shall not be considered.

3. Envelope should be subscribed as '**PROVISION OF REDUNDANT 10G OPTIC FIBRE CONNECTIVITY AT NEW BOYS HOSTEL- I'**

4. **Terms and Conditions.**

(a) The price quoted should be inclusive of all taxes and delivery at Army Institute of Technology, Dighi, Pune-411015.

(b) Discount offered if any, should be indicated as percentage of rates quoted, separately.

(c) Payment will be made after completion of work and on verification by a Board of Officers detailed by AIT.

Sd/-xxxx
(KE Vijayan)
Col (Retd)
Jt Director
for Director