

### Scope of Work

- To Supply, install and connect 6 core armored fibre optic cable from RTI Building to PML Building.
- To connect 6 I/O outlets from 16 port switch using CAT5e cables.

### Network Design Considerations :

1. Use of Armoured Fibre Optic Cable (6 Core) for connecting between buildings and CAT5e ethernet cable within the building.
2. The length of fibre optic to be taken as 850 mts, CAT5e cable as 500mts and 6 I/O units for the purpose of arriving at a value for the quotation.
3. Information outlet and face plate must be UK style with shutters. The box must have sufficient space to keep a cable loop of 100mm
4. All patch cords used should be of standard length of 4/7 feet with factory crimped.
5. UTP cable should be laid in PVC casing and capping. PVC casing and conduit will be clamped on wall or ceiling thru which the cable is laid.
6. Where ever cables pass through the road and walls, all such cuttings/holes should be properly closed with cement.
7. Armoured 6 core 62.5/125 microns cable should be used to connect from RTI Building to PML Building. The cable is to be laid in trenches of 400mm wide and 1000mm depth along the specified route. After preparing the trench, a 100mm sand cushion is to be provided on which the cable is laid. On top of the cable good quality bricks should be laid and the trench should be back filled. At road cuttings and on wall, cable should be laid in a suitable GI pipe.
8. Suitable cable route marker (5No.) shall be installed along the cable route.
9. The 9U wall mount rack should have a built in side/top cooling fan and power adopter and 0.5 KVA UPS.
10. The new LAN extension should adhere to the existing structured LAN at the Institute.
11. Quotation should have detailed table consisting of material description, quantity, unit of measurement, unit rate and amount. Also, wherever lumpsum charges are quoted, should be clearly mentioned separately. Quotation should contain the entry in the main page **“Total cost of extending LAN from RTI Building to PML Building including of all taxes is Rs. ....”**, which is used for comparison of quotations, Quotations without this information, shall not be considered.
12. Actual payment shall be made on the actual materials used taking item and unit rate from the quotation.

Director, CSRTI shall have the right to reject the equipment/systems if it does not comply with the specifications at any point of inspection