

Specification for Optical Fiber Transceiver

149

Scope: -

Optical Fiber transceiver units required to send broadcast quality embedded HD/SD-SDI signal for feeding to Gyan Darshan TV channel from Convention Centre to EMPC, IGNOU, Maidan Garhi-New Delhi.

Optical Fiber Cable of approximate 600 mts is already laid down with LIU from Convention Centre to EMPC. Supplied Transceiver Units must work with existing laid optical fiber cable.

Essential Features:-

1. Offered OFC Transceiver should support HD/SD-SDI Video with embedded Audio Signal.
2. The Offered OFC based Transceiver should be capable of carrying uncompressed broadcast quality Video and Audio signals.
3. It should have transmitter as well as receiver unit which can be interchanged on both side.
4. Video Channel should be compatible with PAL standards.
5. It should have LEDs for power and video signals.
6. The product should be broadcast quality from reputed brand.
7. Optical fiber SFP module should be included.
8. Warranty should be minimum three years.

Technical Specifications:

- Single Channel 3G-HD/SD-SDI Single Mode Optical Fiber Transceiver/Converter.
- Video Input :
 - 1-channel independent 3G-SDI Input, SMPTE-259/292/424
 - 1-channel Single Mode LC Fiber Input, SMPTE-297
 - Nominal Wavelength: 1260-1620 nm
 - Optical Sensitivity: -18dBm (min)
- Video Output
 - 1-channel independent 3G-SDI Output, SMPTE-259/292/424
 - 1-channel Single Mode LC Fiber Output, SMPTE-297
 - Nominal Wavelength: 1310 nm
 - Optical Power: -5dBm (min), 0dBm (max)
- Video Input connector type : BNC
- Video Output connector type : BNC
- Safe Operating Temperature: 0 to 40 C (32 to 104 F)
- Safe Storage Temperature (Power OFF): -20 to 60 C (-40 to 140 F)
- Operating Relative Humidity: 10-90% non condensing

Accessories: -

All the accessories such as power cable/power adapters, necessary suitable connectors at both end and any other accessories required to complete the system should be offered by the firm to make the system work.