

SL No.	Description	Compliance
M20ultiple E1 – ETH – RS232 Intelligent Optical Multiplexer with auto change over facility (1+1) on optical fiber; four ETH port / four RS232 port and one SNMP port and AC/DC power supply from a single socket suitable for SCADA purpose on dark fiber		
1	Unit to be support DTE interfaces of four E1 and four ETH ports over dark fiber through its optical ports four (main & stand by)	
2	Optical port distance to be 40 Kms on single mode fiber	
3	E1 ports to be standards 120 Ohms RJ45 interfaces only	
4	ETH ports to be four in number 10/ 100 Mbps	
5	ETH ports to be transparent to VLAN if used	
6	Four RS232 port to be provided in the unit in addition to the four E1 & four ETH ports	
7	Unit to support (1+1) four fiber ports main two ports and stand by two ports SC connector can be configured as primary and secondary path point to point	
8	SNMP port to be provided in the unit	
9	Unit to support DC/AC power support from a single socket usage will be any one at a time AC or DC	
10	Optical ports to be SC connector	
11	Unit to be capable of interworking with various multiplexer like FABIO 2CX/ FABIO 4C or HAI etc.,	
12	The unit to be suitable for Indian Railways various applications be it IBH or simple point to point to connectivity for voice extension over FABIO 4C or FABIO 2CX or for SCADA applications or similar hybrid devices etc.,	
13	Front panel LED indicators to be provided for optical status and E1 status connected	
14	Preferred Make: E1 Optical / TEAM ENGG/ ACTELIS/ ASCOM / FABIO / LANTANA / CISCO /	
15	Power supply to support 48 VDC/ 230 VDC/ 110 VDC with auto sensing from a single socket any one at time one can be used and their respective power cable AC & DC to be provided along with unit	
16	Operating temperature of E1 optical of Team Link up to + 55 Deg C	
17	The product to have been designed and manufactured in India, a declaration to the above (designed & manufactured) from OEM mandatory	
18	RTES inspection of previous supply to Indian Railways to be enclosed	
19	Unit to be 19" Rack mountable and respective clamps to be provided along with unit for fixing in the telecom rack	

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20	Compliance to be provided as Y/ N only any other thing mentioned will be treated as non-compliance & demonstration of the product mandatory to verify all the features	