

**المواصفات الفنية الخاصة بالمناقصة العامة**

**رقم المناقصة : (٢٠١٢/٢٦)**

**الخاصة بشراء وتوريد (٦٠) مودم ضوئي مختلفة السعات**

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**المؤسسة العامة للاتصالات السلوكية واللاسلكية**

**الإدارة العامة للمشتريات والمخازن**

**إدارة المشتريات - قسم العقود والمناقصات**

## Technical specification of Optical Modems

- **General specifications:**
  - 8E1 Optical Modem capacity is Not less than 8E1.
  - 4E1 + 1ETH Optical Modem capacity is Not less than 4E1 and 1 port (10/100Base-TX) Ethernet.
  - 4E1 + 1ETH Optical Modem must operate E1 and Ethernet together.
  - Optical Modem must support Local and remote loopbacks for optical link and each E1 link.
  - Local and remote alarms must be indicated by LEDs.
  - It must display the different levels of alarms (Major, Minor and Critical) in different colors.
- **E1 Interfaces:**
  - Rate 2.048Mbps  $\pm$  50ppm Pulse Shape Conforms to ITU-T G.703, ITU-T, G.704.
  - Type of E1 connectors: RJ45.
  - Impedance: 120 ohm.
  - Jittering: compliance with ITU-T G.742, G.823.
  - Framing :Unframed (Transparent to framing (ITU-T G.704); transparent to ISDN PRI (30B+1D) E1 transmissions)
- **Ethernet Interface:**
  - 10/100Base-TX Full/Half duplex auto-negotiation and auto MDI/MDIX.
  - Physical connector: RJ45.
  - Default mode is auto-negotiation.
- **Optical Interfaces:**
  - Single mode - Wavelength: 1550 nm.
  - 1+1 optical line auto protection .
  - Connectors: FC/PC.
  - Distance: 50-80 Km.
- **Operation:**
  - Management interface: LCD / keys button.
  - Ability to monitor and configure remote unit from the local unit.
  - All setting in local and remote and current ,History alarm should be available by LCD display.
- **Warranty:**
  - Not less than one year.
- **Power supply:**
  - Both AC ( 220V ) and DC (- 48V DC).



الكمية المطلوبة

	Items	Interface Type	Q	Note
1	Optical Modems	4E1 + 1 Port Ethernet	30	Same product
2	Optical Modems	8E1	30	

