

Department of Electrical Engineering

Indian Institute of Technology Madras Chennai – 600 036, India

Prof. Deepa Venkitesh Electrical Engineering Department

Ref: No. IITM/EE/DEEA/19-20/ WDM Transceiver

DATE

: 0912,2019

Due date

: 23,12.2019

Dear Sir.

- 1. Quotations are invited in duplicate for the various items shown below/overleaf/enclosed list.
- 2. The quotations are to be in two parts as Technical Offer and as Commercial offer: The two parts of the offer are to be clearly marked on the envelopes. The two parts of the offer in separate envelopes must be enclosed in the one bigger envelope duly sealed and super scribed with reference number and due date and must be addressed to the undersigned so as to reach him on or before the due date stipulated above.
- 3. Fax and Email quotation are not acceptable.
- 4. Quotations should be valid for 60 days from the due date and period of delivery required, warranty terms etc. should also be clearly indicated. A minimum of one year warranty is required from the date of commissioning.
- 5. Imported supplies should be quoted for CIF Madras.
- 6. Local firms to quote for free delivery to this Institute. If quoted for Ex-Godown delivery charges be indicated separately.
- 7. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the Quotations, wherever applicable. Samples / machine/ equipment if called for should be submitted / demonstrated at free of charges, and collected back at the supplier's expenses. Compliancy certificate is to be provided indicating conformity to the technical specifications
- 8. Sales Tax/General Taxes/ED if applicable and such other taxes legally leviable and intended to be claimed should be distinctly shown along with the price quoted. If this is not indicated no such claim will be admitted at any stage. The taxes leviable should take into consideration that we are entitled to have concessional Sales Tax applicable to Non-Government Educational Institutions run with no profit motive for which a concession is given. Sales Tax Certificate will be issued at the time of final settlement of the bill.
- 9. Goods should be supplied carriage paid and insured.
- 10. Goods shall not be supplied without an official supply order.
- 11. If the item is under DGS&D Rate contract No. and the price must be mentioned. It may also please be indicated whether the supply can be made direct to us at the Rate contract price (Please note that we are not Direct Demanding Officers). If so please send copy of the RC.
- 12. The Guarantee period of the item may be indicated clearly.
- 13. In case of LC. Payment, 90% of the payment will be made after completion of the supply. The balance 10% of the payment will be made after satisfactory installation of the equipment.
- 14. IIT Madras is exempt from payment of Excise Duty and is eligible for concessional rate of custom duty.

 Necessary certificate will be issued on demand. IIT Madras will make necessary arrangements for the clearance of imported goods at the Airport/Seaport. Hence the price should not include the above charges.
- 15. Acceptance and Rejection:- I.I.T. Madras has the right to accept the whole or any part of the Tender or portion of the quantity offered or reject it in full without assigning any reason.

Yours faithfully,

Prof. Deepa Venkitesh

Items required: 4 Channel WDM analog transceiver unit, at 1550nm as per specifications enclosed.

Phone Nos.: (044) 2257 4466/ /5419 FAX: (044) 2257 4402 E-mail: deepa@ee. iitm.ac.in



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Specifications for WDM transceiver

Requirement:

4 Channel WDM analog transceiver unit, at 1550 nm

The electrical and optical specifications are given below.

Electrical specifications (for each input)

Parameter	Value	Unit
Frequency Range	0.5 - 4.0	GHz
Gain flatness (overall)	± 2	dB
Gain flatness (any 100 MHz)	< 0.2	dB
Link gain (for 3 km Spool)	> 0	dB
P1dB	> -10	dBm
SFDR	> 90	dB
Sensitivity (for ±100 MHz BW)	-100	dBm
Noise Figure	< 5	dB
Max input no damage	> +5	dBm
Input, output impedance	50	Ohm
Connector	SMA	

Optical Specifications

Parameter	Value	Unit
Wavelength Spacing (around 1550 nm)	> 1 nm	nm
Connector	APC	# ·

Other notes:

- •The laser should be wavelength stabilized; temperature control required.
- •Critical band is at 3.5 GHz, 200 MHz bandwidth region.
- •Delivery should be within two months of order date.
- •Separate quote should be given for 1 unit and 4 units.
- •Technical and commercial bids should be given in two separate sealed envelopes.
- •Due date -15 days from 09/12/2019

The quotes should be addressed To:

Prof. Deepa Venkitesh ESB 337 A. Department of Electrical Engineering Indian Institute of Technology Madras Chennai – 600 036, India

Prof. Deepa Venkitesh

Yours faithfully

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