

**Regional Academic Centre for Space (RAC-S)
NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA-136119**

NOTICE INVITING QUOTATION

No.: *RAC-S/122*

Dated: 11.09.2026

Sealed quotations are hereby invited from reputed and experienced firms for supplying, Installation, Testing and Commissioning of the following Equipment/Component under the ISRO funded research project "Design and Development of Optical Frequency Comb Source for DWDM Applications" to the RAC-S, NIT Kurukshetra:

Sr. No.	Description	Quantity
1.	Fiber Coupled Phase Modulator (Technical Specifications included in Annexure - I)	02 units

Terms & Conditions:

1. The firm should have relevant experience in supplying **Fiber Coupled Phase Modulator**.
2. The Quotation to be submitted should be in favour of/addressed to:

**Director, NIT Kurukshetra
National Institute of Technology Kurukshetra
Kurukshetra, Haryana, India**

3. **Submission of Quotation:** Hard copy in sealed cover by post/speed post/Courier only. Online or email submissions will not be accepted.
 1. Mention "**Quotation for Fiber Coupled Phase Modulator**" on the sealed cover. The sealed cover should contain two separate covers, namely: "**Technical Document for Fiber Coupled Phase Modulator**" and "**Financial Document for Fiber Coupled Phase Modulator**".
 2. The quotation should be submitted to **Dr. Karamdeep Singh (Principal Investigator, ISRO Project), Assistant Professor (Grade-I), Room No. 108, Department of Electronics and Communication Engineering, National Institute of Technology, Kurukshetra (HR.)-136119.**
4. The quotation must clearly mention item-wise rates, applicable GST and total cost.
5. The firm shall submit valid GST Registration, PAN and relevant experience details/documents along with the quotation.
6. The quoted rates shall remain valid for a minimum period of 90 days.
7. The last date for submission of quotation is **21.09.2026 at 03:00 PM.**
8. The offers must strictly be as per the Technical Specifications included in Annexure - I. At the same time, it must be kept in mind that mere copying of our Technical Specifications in the Quotation shall not make the Quotation eligible for consideration. A Quotation has to be supported with the Original Catalogue of the Quoted item(s), duly signed by the authorized person participating. Non-compliance with the above shall be treated as incomplete/ ambiguous, and the quote may be ignored without giving an opportunity to the participant for further clarification/negotiation, etc.
9. The participant shall ensure that the quote submitted by him/her includes all accessories for full execution of the contract. The participant shall not charge extra for additional items required to meet the operational requirement at the stage of installation and commissioning.
10. Items should be delivered to the specified location in the campus of National Institute of Technology, Kurukshetra, Kurukshetra, Haryana, India 136119, free of cost. The supplier should arrange for the entire process from the origin of equipment to the National Institute of Technology, Kurukshetra, Kurukshetra, Haryana, India 136119 (including charges for safe packing, Marking & labelling, loading charges, road/air freight, insurance of goods,

unloading charges, transport & unloading at buyer destination, installation, commissioning, demonstration and training; within the quoted price).

11. No freight and insurance charges will be provided, and the materials are to be delivered at National Institute of Technology, Kurukshetra, Kurukshetra, Haryana, India 136119 at the cost and risk of the supplier within the quoted price.
12. Supplier shall be responsible for installation/demonstration wherever applicable and for after-sales service during the warranty period.
13. The warranty provided shall be comprehensive, meaning it must include the cost of the spares, materials, manpower, and any other incidental expenses thereto.
14. Payment shall be made as per Institute rules after satisfactory supply, Installation, Testing and Commissioning of purchased Equipment/Component.
15. All other terms and conditions shall be as per the applicable procurement rules of the Institute.
16. The Institute reserves the right to accept or reject any or all quotations without assigning any reason.


Principal Investigator, ISRO Project

Copy to:

1. Notice Board
2. Institute Website
3. Assistant Registrar (Accounts)
4. Concerned file.

ANNEXURE - I

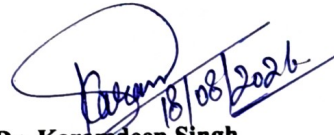
Technical Specifications

Fiber Coupled Phase Modulator

Performance Parameter	Specifications
Operating Wavelength	1530 nm to 1565 nm
S ₂₁ Bandwidth/ Usable Bandwidth	≥ 8 GHz
V _π RF	≤ 4.3 Volts
Insertion Loss	≤ 4 dB
Impedance	50 Ω
Maximum RF Input Power	≥ +28 dBm
Maximum Optical Input Power	≥ +20 dBm / 100 mW
Optical Return Loss / Optical Back Reflection Loss	-39 dB to -47 dB
Electrical return Loss / S ₁₁ return Loss	-8 dB to -15 dB
Optical Connector / Optical Fiber Interface	FC/APC
Input / Output Optical Fiber Type	PM Fiber
RF Connector / Electrical Interface	SMA
Warranty	1 Year


16/08/2026
Dr. Chandra Prakash
Member


Prof. Brahmjit Singh
Member (Co-PI)


18/08/2026
Dr. Karandeep Singh
PI