

Air-Mail / Speed-Post
CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION,
SECTOR 30 C, CHANDIGARH 160 030 (INDIA)

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GRAMS: CENINSTS

Please quote our reference in all Correspondence to ensure prompt attention
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No: CSIO/4(1256)/Pur

7th July, 2008

Sub: Notice Inviting Tenders.

Dear Sirs,

We are interested in purchase of the following:-

S.No.	Description of Materials	Quantity
1.	Software package for design and analysis of parameter and characteristics of Fiber Bragg Gratings (FBGs) and Long Period Gratings (LPGs) for communication and sensors as per enclosed specifications	01 No.

Kindly send us your quotation as per terms and conditions mentioned overleaf.

Yours faithfully,

(B.M. Khanna)
Stores & Purchase Officer

_____Cut and Paste on the envelope_____

NO: CSIO/4(1256)/Pur

Due Date: 30.07.2008 (2:30 PM)

Stores & Purchase Officer
Central Scientific Instruments Organisation
Sector 30, Chandigarh 160 030 (India)

PTO

Terms and Conditions

1. Please send your quotation **in triplicate** showing FOB Prices with full specifications & supporting technical literature. The envelope should be superscribed “**TENDER FOR – Software Package for FBGs & LPGs Your REF. NO. CSIO/4(1256)/Pur. Due on 30.07.2008 upto 2.30 PM and opened at 3:00 P.M.**”
 2. Kindly mail your quotation well in advance so that the same reaches us before the due date because late/delayed/incomplete tenders are not be considered at all.
 3. Tenders/Quotations sent by FAX/E-mail are not be considerable if more than Rs. Two lakh.
 4. Please quote FOB gateway airport prices. All charges including pick up, documentation and handling charges will be borne by the foreign supplier. The Air freight and Insurance charges is to be paid by the buyer in India, however estimated Air Freight and Insurance Charges should be mentioned in your Proforma Invoice to arrive at CIF value.
 5. Please send catalogue/leaflet alongwith your Proforma Invoice.
 6. The gross weight of the consignment may be intimated in the Proforma Invoice to decide the mode of dispatch.
 7. The Proforma Invoice should be valid for six month from the date of opening.
 8. **Liquidated Damages:** Being a Research and Development Organisation, time is essence of the order the date of delivery should be strictly adhered to. Otherwise the Director of this Organisation reserves the right not to accept delivery in part of full and to claim the liquidated damages 1% per week subject to maximum 5% of FOB value of the order.
 9. **Fall Clause:** The price quoted by the supplier should not be higher than the maximum retail price, if any, for the stores and the same shall not be higher than the price usually charged by the supplier for stores of the same nature, class or description to any other purchaser.
 10. Does the prices quoted include any Commission for your Agents in India, if so, please state:-
 - a. the name and full address of the Indian Agents.
 - b. what services the Agents will render
 - c. the amount of the Agency Commission for the agents are included in the quoted prices
 - d. In the event of order being placed on you, the amount of commission to your Agents in India is payable in Indian Currency after receipt of goods which should be mentioned in the Proforma Invoice.
 - e. The Invoice to be presented by you will be for the value of our order **less** Agency Commission payable in Indian Currency to your Indian Agents.
 11. **In the event of sending the quotation/proforma invoice by the Indian Agents of foreign suppliers they must enclose an authority letter from their Principals that the Indian Agents namely _____ are authorized to quote on their behalf and the terms and conditions settled by the Indian Agents with the buyer will be binding on their Principals.**
 12. **Instructions for Indian Agents:**
 13. Agents in India of Foreign manufacturers shall submit alongwith the tender an income tax clearance certificate alongwith other relevant documents i.e. a copy of registration certificate from DGS&D in support of their being Agents of the foreign manufacturers
 14. The Agency Commission included in the Tender must be disclosed correctly which will be paid in Indian Currency after receipt of the goods at destination in satisfactory condition. Any breach or default on the part of the suppliers/Indian Agents to disclosure of Agency Agreement in India, there would be a penalty of banning business and dealing with the Govt. or damages or payment of named sum.
 15. **Performance Bank Guarantee:** The supplier has to provide the performance bank guarantee for 10% of FOB value for warranty period after the satisfactory installation and commission of the equipment/instruments or supply of materials in good condition as the case may be
 16. **Terms of Payment: -**
 - a. No advance payment with the order or before dispatch of consignment of goods will be accepted as our rules do not permit for the same.
 - b. One of the following payment terms are acceptable which must be mentioned in your offer;
 17. Credit basis: The payment will be made after receipt of the goods in good condition by bank draft.
 18. Sight Draft: The payment (90%) is released against the shipping documents through our banker which will be mentioned in the order & balance after receipt of goods in good condition.
 19. Letter of Credit: The letter of credit for 100% FOB value will be established in the supplier’s country after acceptance of order with its terms by the supplier. 90% payment will be released against shipping documents and balance 10% is released after receipt of the goods in good condition/satisfactory installation (wherever necessary) at Destination.
- **NOTE: - Kindly clearly mention the packing, forwarding, freight, insurance charges wherever applicable. The tenders received without showing these charges will be rejected.**

Software package for design and analysis of parameter and characteristics of fiber Bragg gratings (FBGs) and Long period gratings (LPGs) for communication and sensors with the following specifications

1. Simulation and analysis arbitrary waveguide profile as well as arbitrary grating profiles.
2. Options to calculate in spatial, spectral and time domains.
3. Capabilities to modelling and analysis of fiber Bragg grating and long period grating sensors with temperature and strain distributions.
4. Capability to inverse problem solving for realisation of an unknown grating using the reflection spectrum.
5. Include mode solver options.
6. Allow fiber/waveguide profile options:
 - (i) Region editor
 - (ii) Real and imaginary refractive index profile
 - (iii) Photosensitivity profile
 - (iv) Material dispersion profile
7. Software should be capable to calculate the following parameter from file or user – defined function:
 - (i) Grating shape: rectangular, sine.
 - (ii) Average index: uniform, linear.
 - (iii) Period Chirp: linear, quadratic, square root, cubic root.
 - (iv) Apodization: Gaussian, hyperbolic tangent.
 - (v) Pulse response: reflection and transmission calculations for arbitrary input pulses.
 - (vi) Grating parameter scan: the properties of the grating spectrum (Bandwidth, sidelobe, peak value, peak position and dispersion at central wavelength) versus many grating parameters, such as grating length, index modulation, grating tilt angle, chirp, period, etc.