

**Department of Physics, Indian Institute of Technology
IIT.P.O. Madras-600 036**

Ref. No.

Date: 07 / 09 / 2017

PHY	2017	001	CV
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To Whom It May Concern:

Dear Sir/Madam,

Due date: 03 / 10 / 2017

Please find below the specifications of ***Fiber Optic Compact Optical NIR Spectrometer along with light source and fiber optic reflectance/transmission probes*** we require for purchase. Kindly send us a quotation by the due date abovementioned complying with the *instructions* to the bidder listed below.

Minimum specification for ***Fiber Optic Compact Optical Spectrometer*** (Quantity 1 nos.) please quote unit price.

Fiber Optic Compact Optical Spectrometer		
Sr. No	Parameters	Value
1	Spectral Resolution	0.2 nm or smaller (< or equal to 0.2nm)
2	Grating	1200 lines/mm or higher (along with the same wavelength range and resolution criteria)
3	Slit width	10 micron, minimum value (can be wider)
4	Start wavelength	750 nm or lower
5	End wavelength	930 nm or higher
6	Min. integration time	1 milli second
7	Fiber optic connector	SMA905
8	Interface to computer	USB
9	Software for spectrometer Operation	Should be included in the price bid

Minimum specification for ***Light source (UV-Vis-NIR)*** (Quantity 1 nos.) please quote unit price.

Fiber optic UV-Vis-NIR light source		
Sr. No	Parameters	Value
1	Spectral range desired	200 nm to 1100 nm
2	Typical optical output power	5 to 10 microwatt

3	Fiber connector	SMA905
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Minimum specification for *Fiber-optic transmission probe for powders/liquids (UV-Vis-NIR)* (Quantity 1 nos.) please quote unit price.

<i>Fiber-optic transmission probe for powders/liquids (UV-Vis-NIR)</i>		
Sr. No	Parameters	Value
1	Spectral range	300 nm to 1100 nm (minimum spectral range, wider ranges are acceptable)
2	Core diameter	200 micron
3	Fiber connector	SMA905

Minimum specification for *Fiber-optic reflection/backscattering probe for liquids and powders (UV-Vis-NIR)* (Quantity 1 nos.) please quote unit price.

<i>Fiber-optic reflection/backscattering probe for liquids/powders (UV-Vis-NIR)</i>		
Sr. No	Parameters	Value
1	Spectral range	300 nm to 1100 nm (minimum spectral range, wider ranges are acceptable)
2	Core diameter	200 micron
3	Fiber connector	SMA905
4	Sample holder	Holder for standard 1 cm cuvette with appropriate SMA905 fiber coupling ports

Instructions to the Bidder

(i) Preparation of Bids: - The limited tenders should be submitted under two-bid system (i.e.) Technical bid and Financial bid.

(ii) Delivery of the tender: - The tender shall be sent to the address below in hardcopy (regular post or courier) and by email so as to reach us before the due date specified in our Schedule:

Prof. C. Vijayan,

Department of Physics

Indian Institute of Technology Madras

Chennai-600036, India

Email: cvijayan@iitm.ac.in

(iii) Opening of the tender: - The offer/bids will be opened by a committee duly constituted for this purpose. The technical bids will be opened first and it will be examined by a technical committee which will decide the suitability of the bid as per our specifications and requirements. In respect of opening of financial bid, those bidders who are technically qualified only will be called for.

(iv) Prices: - The price should be quoted in net per unit (after breakup) and must include all packing and delivery charges to the Physics Department of IIT Madras. The offer/bid should be exclusive of taxes and duties, which will be paid by the purchaser as applicable. However the percentage of tax & duties should be clearly indicated.

The price should be quoted without custom duty and excise duty, since IIT Madras is exempt from payment of excise duty, and the custom duty will be paid at concessional rate against duty exemption certificate.

In case of import supply, the price should be quoted on EX-WORKS and CIP basis indicating the mode of shipment.

(v) Agency Commission: - Agency commission, if any, will be paid to the Indian agents in Rupees on receipt of the equipment and after satisfactory installation. Agency commission will not be paid in foreign currency under any circumstances. The details should be explicitly shown in Tender even in the case of 'Nil' commission. The tenderer should indicate the percentage of agency commission to be paid to the Indian agent. The foreign Principal should indicate about the percentage of payment and it should be included in the originally quoted basic price, if any.

(vi) Terms of Delivery: - The item should be supplied to the Physics Departments, IIT Madras, Chennai, India, as per Purchase Order. In case of import supply, the item should be delivered at the cost of the supplier to our Institution. The Installation/Commissioning should be completed as specified in our important conditions.

(vii) Technical Bid Opening: The technical bid will be opened after the due date mentioned above and the financial bids of those tenders who are technically qualified will be opened subsequently.

(viii) IIT Madras reserves the full right to accept / reject any tender at stage without assigning any reason.

(ix) Accessories: The vendor may quote optional accessories which may be required with the instrument mentioned for purchase together but may not be used for price comparison.

(x) Warranty statement: Please provide a clear warranty statement. A minimum warranty of 2 years should be provided for the product.

(xi) Validity of quotation: minimum of 90 days. Please mark reference number on top of the quotation.

(xii) User list: please provide a representative list of users with institutional affiliation and email addresses.

Yours Sincerely,

C Vijayan

Professor – Physics.

Co-ordinator

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