



Indian Institute of Technology Madras

I.I.T.P.O., MADRAS-600 036

STORES & PURCHASE SECTION

Form for Inviting Quotations

Ref.No.

Date: 26 June 2018

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Under Certificate of Posting

Dear Sirs,

DUE DATE: 13 July 2018

1. Quotations are invited in duplicate for the various items shown below /overleaf/ enclosed list. Quotation should contain two separate parts, a technical offer and a commercial offer, enclosed in a sealed envelopes.
2. The quotations duly sealed and superscribed on the envelope with the reference no. and due date, should be addressed to the undersigned so as to reach him on or before the due date stipulated above.
3. The quotations should be valid for sixty days from the due date and the period of delivery required should also be clearly indicated.
4. 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.
5. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the quotations, wherever applicable. Samples if called for, should be submitted free of charges, and collected back at the supplier's expenses.
6. Local Firms : Quotations should be for free delivery to this Institute. If quotations for Ex-Godown delivery charges should be indicated separately.
7. Firms Outside Chennai: Quotations should be for F.O.R. Chennai. If F.O.R. consignor station, freight charges by passenger train / lorry transport must be indicated. If Ex-Godown, packing, forwarding and freight charges must be indicated.
8. The rate of GST and the percentage of such other taxes legally leviable and intended to be claimed should be distinctly shown along with the price quoted. Where this is not done, no claim for GST will be admitted at any stage and on any ground whatsoever.

(Handwritten Signature)



Dr. ARAVIND KUMAR CHANDIRAN
Assistant Professor
Department of Chemical Engineering
Indian Institute of Technology Madras
Chennai - 600 036, India

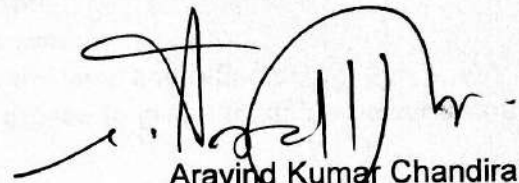
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The taxes leviable should take into consideration that we are entitled to have concessional GST applicable to non-Government Educational Institutions run with no profit motive for which a concession. Sales Tax Certificate will be issued at the time 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. Payment : Every attempt will be made to make payment within 30 days from the date of receipt of bill / acceptance of goods, whichever is later

Yours faithfully,



Aravind Kumar Chandiran
Assistant Professor
Department of Chemical Engineering
Indian Institute of Technology
Chennai-36.



26/06/2018



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Assistant Professor
Department of Chemical Engineering
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Chennai - 600 036, India

Technical Specifications

IIT-Madras is looking for a research grade high intensity Xe-arc light source coupled with a monochromator/spectrometer. The following technical specifications should be complied with to qualify the technical bid. A detailed compliance statement should be provided and it should be supported by the manufacturer's product brochure or website. Information provided in the supplier/redistributor/vendor/reseller's brochure or website cannot be considered as supporting document.

1. Light source specifications

- a. Should provide a light source. Light source should be based on Xe-arc lamp with power rating of 75W or more.
- b. Xe arc source should be in horizontal configuration with ellipsoidal reflector along the axis of lamp for high intensity light output.
- c. f/# for reflector should be f/4.5 or better.
- d. Light emission slit should have quartz window.
- e. Provide lamp housing which encloses the lamp and reflector.
- f. Should provide power supply that is proven to give ultrastable power output for Xe-arc lamp sources.
- g. Should provide ignitor that is either integrated with power supply or lamp housing
- h. All the components mentioned from 1a to 1g should be integrated, tested and calibrated in the factory for best performance. Calibration certificate should be provided.

2. Spectrometer/monochromator specifications

- a. Monochromator should be based on Czerny-Turner configuration with focal length of 140 mm or more
- b. Should have interchangeable dual grating turrets
- c. Should provide two gratings, each with size at least 30 mm x 30 mm, with 1200 lines/mm and have spectral resolution of 0.25 nm or better.
- d. Grating adjustment should be motorized with drive step size of 0.25 nm or better and should have possibility to control using data acquisition software.
- e. Grating should be capable of operating in wavelength ranges between 340 nm and 900 nm.
- f. Spectrometer should be mirror based to reduce chromatic aberrations.
- g. Should have drive speed of at least 500 nm per second.
- h. Entry and exit slits should have manual micrometer based slit adjustments between 10 μ m and 2 mm.
- i. Should have capability to interface with computer *via* USB.
- j. Should provide Labview VIs and drivers for spectrometer/monochromator to develop custom software for integrating the spectrometer/monochromator with other optoelectronic components like photodetectors.

3. Other accessories

- a. A suitable adapter and other accessories should be provided to connect the Xe-arc lamp and spectrometer/monochromator.
- b. A base plate should be provided to hold heavy and bulky accessories.

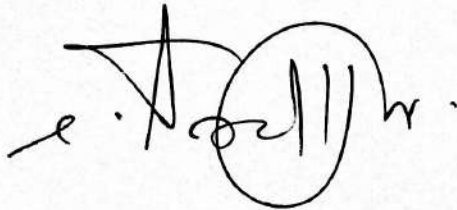


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4. IT IS MANDATORY THAT THE LIGHT SOURCE, SPECTROMETER/MONOCROMATOR AND ITS ALLIED ACCESSORIES MENTIONED IN POINTS 1 TO 3 SHOULD BE SUPPLIED FROM ONE MANUFACTURER/COMPANY. PRODUCTS QUOTED FROM TWO OR MORE MANUFACTURERS/COMPANIES WILL LEAD TO THE DISQUALIFICATION OF TECHNICAL BID.
5. Warranty: Should provide at least one year warranty from the date of installation.
6. Computer: A high performing desktop computer with at least 8 GB RAM, 500 GB hard disk capacity, 21 inch monitor, and Windows 10 operating system should be supplied. Computer may be procured locally by the supplier/vendor bidding for tender.
7. Optional accessories.
 - a. Price for additional Xenon arc lamp quoted in specification 1, should be provided.



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