



Indian Institute of Technology Madras

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

STORES & PURCHASE SECTION

Form for Inviting Quotations

Ref.No.

Date: 2 May 2018

CHE	2018	AK	UV-VIS-NIR
-----	------	----	------------

Under Certificate of Posting

Dear Sirs,

DUE DATE: 20 May 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] 02.05.18



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


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,



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

 02/05/2018

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

Department of Chemical Engineering, IIT-Madras is looking for a double beam UV-Visible-NIR spectrometer that can be used to measure absorption/transmission/reflectance properties of solid samples, including powders, thin films and pellets.

Specification for Absorption spectrophotometer

1. Wavelength Range: 250 nm to 1300 nm.
2. Czerny-Turner single or double monochromator based system should be provided for monochromatic light generation over the entire wavelength range.
3. Spectrometer should possess double beam optics
4. Light source should be based on halogen lamp and deuterium lamp or Xenon lamp to cover 250 nm to 1300 nm.
5. Detector should be based on photomultiplier tube and InGaAs to cover UV to NIR range.
6. Integrating sphere to measure the diffuse reflectance for solids, powders and films for at least 250 nm to 1300 nm, should be provided.
7. Sample holder for solids, powders and films should be provided
8. Cuvette for liquid samples should be provided
9. Stray radiation should less than 0.005%
10. Wavelength accuracy: ± 0.3 nm or better
11. Wavelength repeatability: ± 0.05 nm or better
12. Scan Speed: 1 nm to 4000 nm per min
13. Photometric range: -5 to +5 Abs
14. Photometric accuracy: ± 0.006 abs or better, over all the absorbance levels
15. Spectral bandwidth: 0.1 nm to 5 nm
16. Entire spectrometer should be computer controlled with software for data acquisition. Software has to be provided along with the spectrometer. Software should have capability to process the data.
17. A computer with at least 4 GB RAM, 500 GB hard disk capacity, and Windows software should be supplied along with the spectrometer.
18. Warranty: At least one year. Price for additional warranty should be given as optional component
19. The vendor/manufacturer/local agent participating in tender should have supplied at least one similar instrument to IIT-Madras.
20. Replacement lamps should be made available in less than 1 month on demand.

All the aforementioned specifications should be complied with, unless otherwise mentioned as optional component. The compliance statement should be supported with product brochure or other official document/webpage from the manufacturer for specifications/requirements numbered from 1 to 16 above. No relaxation on the specification will be given.



02.05.2018



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