Department of Metallurgical and Materials Engineering
Indian Institute of Technology, Madras, Chennai – 600 036

Enquiryu. No. | MET | TSSK | 001 | 2017 |

Date: 20.7.2017
Due Date : 9.8.2017

Dear Sirs,

1. Quotations are invited **in duplicate** for the various items shown below / overleaf / enclosed list.
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, Rate Contract Number 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. If so, please send copy of the R.C. (Please note that we are not Direct Demanding Officers).
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 are 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 Sales / General Taxes 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 Sales / General Taxes will be admitted at any stage and on any ground whatsoever. **The taxes leviable should take into consideration that we are entitled to have Concessional Sales Tax applicable to non-Government Educational Institutions run with no profit motive for which a concession. Sales Tax Certificates will be issued at the time of final settlement of the bill.**
8. Goods should be supplied carriage paid and insured.
9. Goods shall not be supplied without an official supply order.
10. 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,

1) Dynamic Light Scattering System - 1 no
As per. Specification Enclosed.
Pl forward Quote to: Dr. T. S. Sampath Kumar.
in two bid System.

T.S.-

for ~~The Head of the Department~~
The Project Co-ordinator
Met. & Materials Engineering
IIT Madras, Chennai – 600 036

PROJECT CO-ORDINATOR
DEPT. OF METALLURGICAL & MATERIALS ENGG.
INDIAN INSTITUTE OF TECHNOLOGY MADRAS
CHENNAI-600 036.

*Strike Out whichever is not applicable.

Enquiry No: MET/TSSK/001/2017 Date : 20.7.2017

Due Date : 9.8.2017.

Item No.	Item	Specifications	Quantity
1.	Dynamic Light Scattering system	Details given below	1

Specifications

PC controlled instrument to perform Particle size, Zeta potential and Molecular weight measurements in a single measuring unit.

Detector : Avalanche Photo Diode (preferably)

Particle size measurement

-Particle size range : 0.5 nanometers to 5 microns
-Laser source : He-Ne laser with low power
-Measurement technique : 90 Degrees scattering
-Temperature range & control : 10 to 90 °C, preferably internal control w/o external water bath

Zeta potential measurement

-Zeta potential range : -500 to + 500 mV
-Signal Processing : M3 PALS or better
-Concentration (w/v) : 0.01 - 40 %
-Conductivity : 200 mS/cm

Molecular weight measurement

-Molecular weight range : 500 Da to 2 x 10^7 Da

System should have a digital correlator with lowest 'minimum sample time' and maximum number of channels.

Computer: Suitable system with preloaded legal OS and equipment software compatibility with DVD writer, key board, optical mouse and LED monitor

Warranty : 3 years
Free software free update : 5 years

Power Requirement

Voltage : 230 V (±5)
Frequency : 50 Hz (±1%)
UPS : 20 minutes back up

Consumables to be supplied

1. Minimum quantity of 100 polystyrene cuvetes with stoppers
2. Minimum quantity of 10 zeta potential measurement cell
3. Standards for calibration for both particle size and zeta potential
4. 1 reusable cuvete

Installation Instructions

Bidder should supply the complete pre-installation details that are required to be arranged.
Bidder should supply and install the system at IIT Madras.

Accessories (to be quoted separately)

Bidder is to supply the list of upgrades/ accessories compatible with the system including the following:

1. Auto titrator
2. Surface zeta cell
3. Universal Dip Cell
4. Auto sampler

Dr. T. S. Sampath Kumar.

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INFORMATION OF TENDER TO UPLOAD IN CPP PORTAL.

DATE : 20.7.17

1.	Tender Reference No.	MET/TSSK/[illegible]/001/2017
2.	Name of the item	Dynamic Light Scattering System.
3.	Tender Category	Goods / Works / Services ✓
4.	Type of Tender (Limited, Open)	Limited
5.	No. of Bids : (1/ 2)	2
6.	Tender Start Date	20.7.2017
7.	Tender Due Date & Time	9.8.2017
8.	Bid Opening Date & Time	11.8.2017.
9.	Bid Opening Venue	Medical Lab.
10.	Pre-bid meeting Date & Time	—
11.	Pre-bid Meeting Venue	—
12.	Quotation Validity Days	60 days required.
13.	Tender Validity Days	21 days
14.	Quotation May be Sent to (Inviting Officer Name & Address)	Dr. T.S. Sampath Kumar, Project Co-ordinator, Dept of Metallurgical & Materials Engg, IIT Madras - 600 036
15.	No of documents to be uploaded in CPP portal	Two

PROJECT CO-ORDINATOR
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