Dept. of Applied Mechanics,

Indian Institute of Technology Madras

Chennai - 36

Phone: 044-2257
Fax : 044-2257 4052

Date: 06-03-2013

Ref. No.: APM/PIJU/2012/ENQ1

Name of the item: Contact Angle Meter

Dear Sirs,

DUE DATE: 20-03-2013

1. Quotations are invited in duplicate for the various items shown in Enclosed list (Annexture - I).
2. The Quotations duly sealed and super scribed 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, warranty terms etc. should also be clearly indicated. A minimum of one year warranty required.
4. Brochure detailing technical specifications and performance, list of industrial and educational establishments where the items enquired have been supplied must be provided.
5. Compliancy certificate is to be provided indicating conformity to the technical specifications.
6. 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.
7. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the Quotations, wherever applicable. Samples / machine/ equipment if called for should be submitted / demonstrated at free of charges, and collected back at the supplier's expenses.
8. Packing and delivery charges must be clearly indicated.
9. 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 Certificate will be issued at the time of final settlement of the bill.
10. Goods should be supplied carriage paid and insured.
11. Goods shall not be supplied without an official supply order.
12. 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.
13. In case of LC. payment, 90% of the payment will be made after completion of the supply. The balance 10% of the payment will be made after satisfactory installation of the software.
14. IIT Madras is exempt from payment of Excise Duty and is eligible for concessional rate of custom duty. Necessary certificate will be issued on demand. IIT Madras will make necessary arrangements for the clearance of imported goods at the Airport/Seaport. Hence the price should not include the above charges.
15. **Acceptance and Rejection**:- I.I.T. Madras has the right to accept the whole or any part of the Tender or portion of the quantity offered or reject it in full without assigning any reason.

Yours faithfully

, Department of Applied Mechanics.

ANNEXURE – I

Ref.. No.: **Date:** 06.03.2013 **DUE DATE:** 20.03.13

SL. NO.	DESCRIPTION	QUANTITY
1	CONTACT ANGLE METER The optics should have high quality manual zoom with a magnification of 10x. The Backlight should be cold backlight system with adjustable intensity and very high contrast with a lifetime of more than 10 years. The syringe should be made of borosilicate of 1ml. The substrate holder should be 100mm X 100mm of White Teflon with a max thickness of the sample to be at 30mm. Should be supplied with Software to determine contact angle, Sessile drop method by using Polynominal, Manual adjustment of baseline for flat or curved surfaces, contour, contour 90, Ellipsoidal, Manual 3, Manual 2, Manual 1. Surface tension and interfacial of liquids Resolution: +/- 0,05 mN/m Range from: 0.5 – 100 mN/m Determination of the polar and dispersive component of liquids Determination of monopolar Acid & Basic components ST vs temperature (requires chamber regulated in temperature) Surface energy : Range from: 0.5 – 200 mN/m Determination of all the components of the surface – Polar (resp. Monopolar Acid and Basic), Dispersive (resp. LW) by using Owens-Wendt and Van Oss Equation Determination of the Wetting envelop from Owens-Wendt Surface Energy Critical Surface Energy by Zisman and Modified Zisman equation Fowkes Equation With chamber to work from Room Temperature upto 170 Deg C	1

Note:

The sealed quotation to be sent to

The Head

Dept. of Applied Mechanics,
IIT Madras, Chennai-600036,
Tamil Nadu, India

Kind attn: Pljush Ghosh