

**UGC-DAE Consortium for Scientific Research Mumbai Centre**  
 (An Autonomous institution under University Grants Commission, MHRD, Government of India)  
**246 – C, CFB, B.A.R.C., Trombay, Mumbai – 400 085.**  
**Phone: 2550 5327, 2559 4727, Fax: 2550 5402**  
**Website: www.csr.res.in, Email: iuc@barc.gov.in, udcsl.mum@csr.res.in**

**(TWO PART TENDER DOCUMENT)**

In respect of Notice Inviting Tender No. 01/2017-18 dt. 14/11/2017, Due on 15/12/2017 at 16.00 hrs.

**TERMS AND CONDITIONS**

1.	Tender is to be submitted in a sealed cover duly superscribed "Tender No. .... Dt....., For Item.....Due on ....." complete with all details, otherwise tender may not be opened/ considered. If you are interested to quote for more than one items, you shall submit the quotations in a sealed cover separately (*) Quotations for items mentioned in the Tender No. 01/2017-18 dt : 14/11/2017 must be quoted in two parts (Part - A – Technical and Part – B - Financial). The two parts should be in separate sealed covers.
2.	Price should be quoted CIP/CIF Mumbai & Insurance upto Mumbai separately. (As per INCOTERMS 2010). In case of local supplier price should be quoted for delivery of item at our premises of this Office located inside BARC Campus at Mumbai. While delivery of item, suppliers are expected to follow security restriction in force. <b>The item mentioned herein is required to be supplied at UGC-DAE CSR, Mumbai Centre, located at CFB, BARC, Mumbai.</b>
3	Centre Director, UGC-DAE CSR, Mumbai Centre reserves the right for accepting the tender in full or part / not accepting the tender without assigning any reasons whatsoever.
4	The acceptance of the tender shall rest with the Centre-Director, UGC-DAE CSR, Mumbai Centre who does not bind himself to accept the lowest tender, and reserves the right / authority to reject any or all the of the tenders received without assigning any reason.
5	The tender shall remain open for acceptance for a period of 90 days from the date of receipt.
6	Delivery period must be mentioned.
7	<b>The literatures / catalogues / technical specifications, if any, must be provided and kept in Envelope of Technical Bid.</b>
8	Offer for providing AMC / Extended Warranty to the supplied product, can be quoted separately and it is to be kept in Financial Bid.
9	We are exempted from the excise duty. The excise duty exemption certificate is issued by Department of Science & Industrial Research (DSIR), Govt. of India, New Delhi under notification No. 10/97- Central Excise Dt : 01 March 1997 & No. 16/2007 dated 01 <sup>st</sup> March 2007. Our registration No. is F.No.11/375/99-TU-Vdated 23/03/2016 & valid upto 31/03/2019, <b>therefore price quoted for the item should be exclusive of excise duty.</b>
10	GST or any other tax charge if any, must be quoted separately.
11	No claim for any tax or duty, not stipulated in the tender will be admitted at any stage.
12	The tenderer should furnish the users list where similar equipment has been supplied recently.
13	Special care should be taken to write the rates in figures as well as in words. No overwriting is to be done on the rates and units.
14	No deviation from the stipulated terms and conditions are allowed. Tenders should be unconditional.
15	The equipment should have warranty for 12 months from the date of supply / installation.
16	It will be obligatory on the part of the tenderer to sign on the offer and all the supporting documents.
17	For imported goods, the payment will be made through Letter of Credit or after receipt of goods by Wire Transfer. No advance payment will be made. Performance Bank Guarantee is to be provided till the warranty period.
18	If the price quoted in foreign currency, it should be exclusive of custom duty. The institution will take care of Custom Duty
19	For indigenous goods no advance payment will be made.
20	The Financial Bid envelope will be opened only if the offered item / product meets our requirement of Technical Specification.
21	Centre-Director, UGC-DAE CSR, Mumbai Centre shall not be liable for any postal delay. <b>The incomplete tender / tenders received after due date / tenders submitted without depositing the cost of the tender document will not be considered.</b>
22	The decision of the Centre-Director, UGC-DAE CSR, Mumbai Centre shall be the final.
23	Arbitration: All disputes arising between both parties in connection with the CONTRACT which cannot be settled amicably shall be exclusively & finally settled by Arbitration under the rules of conciliation and arbitration of the International Chamber of Commerce, Mumbai by one or more Arbitrators appointed in accordance with the said Rules.
24	Subject to Mumbai Jurisdiction.
25	<b>The last date for submission of the tender documents is 15.12.2017 upto 16.00 hrs.</b>

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**Technical specifications for DLS Set up (Temperature variation with microrheology)**  
**A compact Nano particle size and zeta potential analyzer.**

Sl. No.	Technical requirements	Specifications
	<b>Measurements</b>	1. Particle size, Zeta potential & Molecular weight. 2. Microrheology (Optional)
<b>A.</b>	<b>Size</b>	
1	Particle size range	1 - 10,000 nm
2	Measurement angles	At least one angle between 10 - 90° and one at 173°
3	Detector	Avalanche photodiode detector (APD) or equivalent for low power laser source
4	Laser source	5 – 50 mW
5	Temperature control	10 – 70 °C with accuracy at least ± 0.5°C
6	Condensation control	Purge facility using dry air
7	Sensitivity	Min. concentration, protein 0.5mg/mL, 15kDa protein
8	Sample Volume	10 – 12µL (min.) and 1 – 3 mL.
9	Software / Algorithm	Basic data analysis software consisting of fitting algorithms - CUMULANT, NNLS and CONTIN - compatible with latest Windows xp, 7 or 8, 32 bit operating systems
10	Auto-correlator: 1. Sampling time (min) 2. Delay time (max) 3. Channels (max)	i) 10 – 25 ns ii) 4000 - 8000 s iii) 2000
<b>B.</b>	<b>Zeta Potential</b>	
1	Zeta potential range	±200 mV or better
2	Size range suitable for zeta potential measurement	1 - 10,000 nm
3	Minimum Sample Volume	20 – 500 µL
4	Scattering angle	Any angle between 10 – 20°

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5	Mobility range	$10^{-9} - 10^{-7} \text{ m}^2/\text{V.s}$ (approx.)
6	Maximum sample conductivity	5 – 250 mS / cm (approx.)
<b>C</b>	<b>Molecular weight</b>	
1	Principle	By DLS method
2	Molecular weight range	$10^3 - 10^7$ Dalton (g/mol)
<b>D</b>	<b>Sample Cuvette</b>	I. Disposable as well as reusable cuvette (1 -3 mL) for size measurement. II. Low volume reusable Quartz cuvette(10 - 20 $\mu$ L) for size measurement. III. Reusable cuvette (10 – 500 $\mu$ L)for zeta potential measurement. IV. Dip cell for aqueous as well as non-aqueous dispersant for zeta potential measurement.
<b>E</b>	<b>Set up dimension and weight</b>	Compact size and light weight (max. 30 kg)
<b>F</b>	<b>Warranty</b>	1 year
<b>G</b>	<b>Power requirement</b>	220 – 240 VAC, 50 / 60 Hz.
<b>Optional</b>	<b>Microrheology measurement Software</b>	Microrheology study with enabled and in-built software for protein and all type of dispersion characterization.
	<b>Probe beads</b>	Beads for probing microrheology

**Note : Please, quote optional items separately.**