

PUNJABI UNIVERSITY PATIALA

Short Term E-Tender Notice

E-Tenders on item rate basis through electronic tendering process are invited by the undersigned from the Original Equipment Manufactures/Approved and eligible Manufactures/Authorized Distributors/Dealers for the Purchase of **Particle Size Analyzer** fulfilling the eligibility criteria mentioned herein which shall be uploaded & received on www.tenderwizard.com/PUNJAB

1. Last date and Time for receipt of Tender online : Date 26-04-2021 17:00 (PM)
2. Time and date of opening Technical bid : Date 27-04-2021 11:00(AM)
3. Time and date of opening Financial bid : Date 28-04-2021 11:00 (AM)

<i>S.No</i>	<i>Item</i>	<i>Earnest Money (Refundable)</i>	<i>Tender Fees (Non-refundable)</i>	<i>Bid processing fees (Non-refundable)</i>
1.	Supply of Particle Size Analyzer with its essential accessories and consumables for Science Departments at Punjabi University, Patiala	Rs.70,000/-	2240/-	2360/-

Aspiring Tenderer who has not obtained the User ID and password for participating in e-tendering may obtain the same by registering in the e-procurement portal www.tenderwizard.com/PUNJAB. The Tenderers once registered can participate in any of the department tenders. For any clarification contact 9257209340, 0172-5035985, 8146699866 or E-mail : etenderhelpdeskpb@gmail.com, pavitar.s@tenderwizard.com

All other details can be seen in the bidding document.

Terms and conditions:

1. The tender fees and Earnest Money should be paid through e-payment only. (IPG(Debit & Credit), Net banking & NEFT/OTC only). Tender will be opened in the Office of Director Computer Centre at Punjabi University Patiala.
2. Tender Processing fee should be paid through e- payment (Internet Payment Gateway (Debit & Credit), Net banking & National Electronic Funds Transfer/OTC only).
3. The Tender documents shall be uploaded in 2 folders.
 - (i) **Folder-A:** Shall contain pre qualification documents such as Registration, GST No., PAN No. Turn Over, Income Tax Return, and Non Black list Self certificate etc uploaded on website.
 - (ii) **Folder-B:** shall contain financial bid on the prescribed form.
4. In case earnest money of the required value is not deposited, the bids will not be considered and rejected straightaway.
5. The folder-A shall be opened only of those suppliers/Tenderers whose earnest money is found to be in order.
6. The folder –B: shall be opened only of those Suppliers/Tenderers whose technical bid is found fit.
7. The final selection of the bidder for the supply of the equipment and consumables will be made on the basis of Bid Evaluation Procedure as per Annexure A.
8. Corrigendum /Addendum/Corrections, if any will be published in the web site only. Firm will have to check the website for any update.

PRE-QUALIFICATION REQUIREMENTS:-

1. Manufacture/Supplier/Authorized Distributors/Dealers etc. can participate.
2. The Bidders will have to provide their own PAN and GST No. whatever is applicable.
3. The Supplier/firms shall submit copies of income tax return for the last 2 years.
4. The Supplier/firms shall also submit Self certification that they have not been debarred/blacklisted by any Govt./ Semi Govt. Organization or any Corporation at any stage.

Other Terms and Conditions:-

1. University Reserves the right to make inspection of the material received from the tenderers/suppliers.
2. Prices should be inclusive of all taxes and levies in INR, FOR Punjabi University Patiala.
3. All items to be supplied must be branded and shall be amply supported onsite directly by OEM. All RMA, shall be in name of Punjabi University, Patiala.
4. The Equipment is to be made available/ installed within two weeks from date of placing confirmed Purchase Order along with all the bills.
5. After the acceptance of tender and placing of order, the time limit for supply of all the material would be as per university needs to be within two - three weeks.
6. If there is holiday on the receipt/opening day of the tender, the tender shall be received / opened on the next working day at the same time.
7. The Registrar, Punjabi University reserves the right to reject the tender without assigning any reason before/after opening of the tenders and the tenderers shall have no right or any claim what so ever for the same on this account.
8. The order for quantity of different items can be increased or decreased. The Suppliers/ Tenderers shall have no right or any claim what so ever for the same on this account.
9. The rate quoted by the Supplier/Tenderer shall be inclusive of all taxes levied by Central Govt. or State Govt. Authority including their variations as notified by the Concerned Authority from time to time and also of all the new taxes and levies that may be imposed.
10. The Supplier/ Tenderer shall comply with the proper by-laws and legal order of the local body or authority under the jurisdiction of which the supply is executed and pay all fees and charges for which he may be liable. Nothing extra shall be payable by the University on this account.
11. The quoted rates shall be valid for full time limit.
12. Firm will supply the material on quoted Rates which include F.O.R., Loading, Unloading, stacking and inclusive of all taxes.
13. An agreement will have to be signed with the Registrar, Punjabi University Patiala within 3 days of issue of supply order.
14. In case of failure of supply of material as per ordered specification, the University reserve the right to reject the supply order imposition of penalty for it security deposited by firm/supplier.
15. Performance Bank Guarantee (PBG)

In case the total order value of items becomes Rs. 25 lacs or above, 10% of the cost price in the form of Bank Guarantee or FDR pledged in the favor of "The Registrar, Punjabi University, Patiala" is required at the time of installation of the equipment which should remain valid at least during the warranty period plus 3 months.

16. Payment terms

The payment will be made against invoice/bill after delivery and installation of the equipment in INR currency only.

17. Acceptance of Terms and Conditions

Bidders must confirm the acceptance of all the terms and conditions of this tender notice. Any non-acceptance or deviation from the terms and conditions must be clearly mentioned. However, tenderers must note carefully that any conditional offer or any deviation from the terms and conditions of this tender notice may render the quotation liable for rejection.

18. Power supply

The equipment should be quoted only for 220 volts and 50 Hz supply.

19. Duly signed and stamped certificate of atleast 5 years comprehensive on-site warranty as per Annexure B should be attached with the technical bid. Successful firm will be required to agree for payment of penalty for exceeding permissible downtime during gurantee/warranty period.

20. Country of origin of the quoted item should be mentioned in the offer in case of imported item.

21. Customs Duty or Excise Duty:

Punjabi University Patiala is exempted from the payment of Customs Duty/Excise Duty. CDEC/EDEC with DSIR Certificate will be provided along with the order (if applicable).

22. Service Facility:

Bidder should mention about the service set up in India and how capable they are to provide after sales services.

23. Installation and Training:

Should be included in your offer without any extra cost.

24. Banker's details:

Name and address of the banker of your company should be mentioned.

25. Reference of supply:

Name and contacts details of the premier educational Institutes where the quoted equipment has been installed in India should be attached as per Annexure-C during the last 3 years. Copies of at least two purchase orders may be attached (if possible). Punjabi University Patiala reserves the right to inspect the equipment for its actual performance in any of the listed Institute. The list of installations with contact details for the last 3 years must be provided.

26. Arbitration

In the event of failure to carry out the contractual obligations, within the stipulated period or extended period and determination of the contract for any reason, violation of warranties etc. the Punjabi University Patiala shall have the right to carry out the unfinished obligation at the exclusive cost and risk of the bidder/firm, after due notice and the difference so accrued shall be recoverable from the bidder/firm.

26.1 The provision of the Arbitration and Conciliation Act, 1996 or as at the relevant time and of rules framed there under and any statutory modifications thereof shall be deemed to apply and be incorporated in this agreement.

26.2 Upon every or any such reference, the costs of any incidentals to the reference and award(s) respectively shall be at the reasonable discretion of the Arbitrators or in the event of their not agreeing, of the Umpire appointed by them who may determine the amount thereof or direct

the same to be fixed as between solicitors and client or as between parties and shall direct by whom and in what manner the same shall be borne and paid.

- 26.3 Panel of arbitrators will be provided by Punjabi University Patiala out of which the bidder will have to select one.
- 26.4 The bidder shall have no objection if the officer who has dealt with the case at any stage is nominated as an arbitrator. Further, that one of the arbitrator's shall be Accounts Expert.
- 26.5 In case of vacancy being caused due to resignation, death or incapacity of the arbitrator(s) to function as such, the same shall be provided in the aforesaid manner and the new arbitrator(s) shall proceed from the stage at which vacancy is caused.

27. Jurisdiction:

The Courts of Patiala alone will have the jurisdiction to try any matter, dispute or difference between the parties arising out of this tender/contract. It is specifically agreed that no Court outside and other than Patiala court shall have jurisdiction in the matter.

28. Force Majeure:

Any failure of omission or commission to carry out the provision of this contract by the supplier shall not give rise to any claim by one party, one against the other, if such failure of omission or commission arises from an act of God; which shall include all acts of natural calamities such as fire, flood, earthquake, hurricane, or any pestilence or from civil strikes, compliance with any statute and/or regulations of the Government, lockouts and strikes, riots, embargoes or from any political or other reason beyond the supplier's control including war (whether declared or not) civil war or stage of insurrection, provided that notice of the occurrence of any event by either party to the other shall be given within two weeks from the date of occurrence of such an event which could be attributed to Force Majeure conditions.

29. Risk & Cost

In the event of failure to carry out the contractual obligations, within the stipulated period or extended period and determination of the contract for any reason, violation of warranties etc. the Punjabi University Patiala shall have the right to carry out the unfinished obligation at the exclusive cost and risk of the bidder/firm, after due notice and the difference so accrued shall be recoverable from the bidder/firm.

30. The material found defective upon opening by the supplier representative in presence of Central stores personnel/indenter of Punjabi University Patiala or not as per tendered specifications will be lifted back at the cost and risk of the supplier. The material lying in the Punjabi University Patiala premises would be at supplier's risk and cost.

31. Liquidated Damages:

In case the firm fails to execute the supply as per the purchase order in whole or in part as per the terms and conditions of PO, Punjabi University Patiala can impose the penalty @1% per week of the undelivered stores, subject to a maximum of 10%. It will also be open to the institute to procure the required item(s) from any other source at the risk and expense of the firm.

32. In case of any clarification regarding tender contact Phone No. **0175-5136601**.

Coordinator,
DST-PURSE Scheme,
Sophisticated Instruments Centre,
Punjabi University, Patiala.

Technical specification of Particle Size Analyzer

Technical Specifications for Supply of Dynamic Light Scattering (DLS) Instrument for Particle Size and Zeta Potential (ZP) Measurement with accessories and consumables

Name of the Equipment: Dynamic Light Scattering (DLS) Instrument for Particle Size and Zeta Potential (ZP) Measurement.

Scope: DLS and ZP have the greater efficiency to measure the size distribution and surface potential of nano-particles. DLS and ZP will be used for the characterization of various types of polymeric and metallic nano-particles.

Technical specifications:

S. No.	Features	Specifications
1	Principle of operation	Dynamic Light Scattering
2	Particle Size	0.3nm – 10µm or better, with ability to export auto correlation function in different file format. Should supply NIST standard for particle size.
3	Zeta Potential	Zeta potential limit -200 mV to +200 mV.
4	Source	Temperature controlled Laser Diode.
5	Molecular Weight	980 Da-20MDa
6	Minimum Sample volume for size measurement	Variable volumes 3 µL or to conduct experiments based on requirements.
7	Minimum Sample volume for zeta potential measurement	Variable volumes 10 µL or more to conduct experiments based on requirements.
8	Temperature Control	0°C to 90°C or better, ± 0.1 °C. No external circulator required.
8	Sample Concentration	DLS: 0.1 mg/mL to 50 mg/mL or better. Should be able to perform zeta potential and size measurement with concentrated samples upto 40% w/vol or better.
9	Measuring Angle	Two angles minimum
10	Accuracy	DLS: ± 2% or better on NIST traceable latex standards. Zeta: ±5% or better for aqueous systems with NIST SRM1980.
11	Maximum Sample Conductivity	20 S/m or higher
12	Cuvettes for DLS and Zeta Potential	i. For aqueous solution: Disposable polystyrene cuvettes with appropriate cap, quantity 100 units or more. ii. For other solvents: Glass cuvettes with appropriate cap iii. Zeta potential cuvettes, pack of 10 or more
13	Reference Material	Vendor shall provide the reference materials for size validation, installation and calibration.
14	Installation and training	Training should be provided by vendor on operation and application of the instrument at SIC Punjabi University, Patiala
15	Software	The software should give the following information;

		<ol style="list-style-type: none"> 1. Size distribution v/s Intensity 2. Zeta potential v/s Intensity 3. Average size of the distribution 4. Automatic expert advisor 5. Export the raw data in EXCEL and CSV format 6. User can modify method/library for the tests <p>Vendor should also provide other detail of the software along with the specification/requirement of PC and OS for the installation and operation of DLS software.</p>
16	Manual	One set of operating manual and service manual (in English) should be provided with the instrument. The manual should be presented in both, hard and soft copy
17	Others	The vendor should also confirm that the spares for the entire instrument will be available for a period of at least seven years after the installation of the instrument.
18	Desktop	Supply of branded computer and printer suitable for Zeta sizer software.
19	UPS	Instrument will be supplied with proper UPS with battery backup with stands and power Stabilizers as per specific requirement of the Instrument with all power supply, switches, boards and electric input and output cables.
20	Warranty	Standard warranty for five years.

BIDS EVALUATION PROCEDURE**Technical Bid and Price Bid**

Punjabi University purchase committee will evaluate the technical and financial bids. Decision of the committee would be final and binding on all the tenderers and bidders.

Evaluation of Technical bid

- (i) Before submission of the technical bid, bidders are expected to meet the qualifying criteria (Requirements) as mentioned in the tender document. Bidders failing to meet these criteria or not submitting requisite supporting documents/documentary evidence for supporting the eligibility criteria are liable to be rejected summarily.
- (ii) The technical bids must be complete in all respect and should cover the entire scope of work as stipulated in the tender document.
- (iii) The details of the evaluation of technical bid will be as follows:

Weightage System		
S. No.	Name and Required specifications of item(s)	Weightage (Total Marks: 70)
1.	LASER SOURCE (Monochromatic, coherent, collimated light)	Max. Marks: 20
1.1	HeNe Laser	20
1.2	Semiconductor laser	18
2.	PARTICLE SIZE RANGE	Max. Marks: 20
2.1	0.3 nm to 15 μm	20
2.2	0.3 nm – 10 μm	18
2.3	0.3 nm -5 μm	10
3.	MEASURING ANGLES	Max. Marks: 15
3.1	More than two	15
3.2	Two	12
3.3	MINIMUM SAMPLE VOLUME (for measurement of zeta potential)	Max. Marks: 15
4.	10 μl -25 μl	15
4.1	25 μl - 50 μl	12

Note: The maximum marks for technical evaluation is 70. Tender(s) obtaining more than or equal to 35 marks will be technically qualified and those with marks less than 35 will be rejected.

- (i) The calculation will be based on the evaluation from technical bid (70%) and from price bid (30%) to determine the successful bidder.
- (ii) The total price bid for both Parts A and B of the tender document will be considered for final calculation of marks to determine the successful bidder.
- (ii) The following formula will be applied to determine the lowest bidder. Highest marks obtained in the final calculation (F) will be the lowest bidder.

$$F = [(B_{LOW} / B) \times 30] + T$$

Legends:

B = Current price bid (Total of Parts A and B)

B_{LOW} = Total price bid of the lowest bidder

T = Technical bid score out of 70

F = Final marks

In case of ties after financial opening, L1 will be finalized as per the following:

1. Firm who provides integration of online database within a single window.
2. If point 1 will not be applicable, then the firm that has maximum marks in technical weightage.

CERTIFICATE OF WARRANTY

- i) I/We certify that the warranty shall be for a period of 5 years comprehensive onsite warranty starting from the date of satisfactory installation, commissioning and handing over of the equipment and of the works conducted therewith covered under the supply order in working order. During the warranty period, I/we shall provide free "after sale service" and the replacement of any part(s) of the equipment or rectification of defects of work of the equipment will be free of cost. The replacement of the parts shall be arranged by us, at our own cost and responsibility. We undertake that the above warranty shall begin only from the date of satisfactory and faultless functioning of the equipment for 60 days at Punjabi University Patiala premises. The benefit of change in dates of the warranty period shall be in the interest of the use/your organization.
- ii) During the warranty period, we shall provide at least 5 preventive maintenance visits.
- iii) Uptime Guarantee: During the warranty period, we will be responsible to maintain the equipment in good working conditions for a period 328 days (i.e. 90% uptime) in a block of 365 days.
 - (a) All complaints will be attended by us within 2 weeks of receipt of the complaint in our office.
 - (b) In case there is delay of more than 2 weeks in attending to a complaint from our side then you can count the number of days in excess of the permissible response time in the downtime. The above said response time of 2 weeks for attending to a complaint by us will not be counted in the downtime.
 - (c) Penalty: We shall pay a penalty equivalent to 0.1% of the FOB value of the equipment for every week or part thereof delay in rectifying the defect.

Note: The right to accept the reason (s) for delay and consider reduction or waive off the penalty for the same shall be at the sole discretion of Registrar, Punjabi University Patiala.

- iv) We certify that the equipment being/quoted is the latest model and that spares for the equipment will be available for a period of at least 10 years and we also guarantee that we will keep the organization informed of any update of the equipment over a period of 10 years.
- v) We guarantee that in case we fail to carry out the maintenance within the stipulated period, Punjabi University Patiala reserves the right to get the maintenance work carried out at our risk, cost and responsibility after informing us. All the expenses including excess payment for repairs/maintenance shall be adjusted against the Performance Bank Guarantee. In case the expenses exceed the amount of Performance Bank Guarantee, the same shall be recoverable from us with/without interest in accordance with the circumstances.
- vi) We shall try to repair the equipment at Punjabi University Patiala premises itself. However, the equipment will be taken to our site on our own expenses in case it is not possible to repair the same at Punjabi University Patiala. We shall take the entire responsibility for the safe custody and transportation of the equipment taken out for repairs till the equipment is rehabilitated to the Punjabi University Patiala after repair Any loss of equipment or its accessories under its charge on account of theft, fire or any other reasons shall be at our sole risk and responsibility which will be compensated to Punjabi University Patiala for such losses at the FOB/CIF value for the damaged/lost equipment/part, including accessories.
- vii) We undertake to perform calibration after every major repair/breakdown/taking the equipment for repair out of Punjabi University Patiala premises.
- viii) In case of extended warrantee, we undertake to carry out annual calibration of the equipment.

- ix) We guarantee that we will supply spare parts if and when required on agreed basis for an agreed price. The agreed basis could be an agreed discount on the published catalogue price.
- x) We guarantee to the effect that before going out of production of spare parts, we will give adequate advance notice to you so that you may undertake to procure the balance of the life time requirements of spare parts.
- xi) We guarantee the entire unit against defects of manufacture, workmanship and poor quality of components.

PROFORMA FOR USER/CLIENT LIST

S. No	Name & full address of purchaser	Purchase Order No. & Date	No. of units (Qty)	Model No. & date of installation	Contact person with cell phone and e-mail id