



# PERIYAR UNIVERSITY

SALEM- 636011, TAMIL NADU  
NAAC A Grade - State University - NIRF Rank 90

Ref. No.PU/R/PL&D3/Physics/28012/2018

Date: 27.12.2018

## TENDER NOTIFICATION

**Sealed Tenders** (Two cover system) will be received by the Registrar, Periyar University, Periyar Palkalai Nagar, Salem – 11 for the **Purchase of Powder X-ray Diffractometer with Chiller and UPS for DST “FIST-Programe” Project in the Department of Physics** from reputed firms.

The detailed tender documents with specifications terms and conditions etc., can be had from our University website [www.periyaruniversity.ac.in](http://www.periyaruniversity.ac.in). The last date for receipt of the tender in this office is **24.01.2019 at 10.30 a.m.**

## TENDER SUMMARY

Tender Ref. Number	PU/R/PL&D3/Physics/28012/2018, Date: 27.12.2018
Tender Document Cost (Rs.) (Downloadable One)	Rs. 16,800/- [(Demand Draft drawn in any Nationalized bank in favour of the Registrar, Periyar University, payable at Salem) [(Separate DD)]
Amount of EMD (Rs.)	1% of the quoted value [(Demand Draft drawn in any nationalized bank in favour of the Registrar, Periyar University, payable at Salem) [(Separate DD)]
Bid Submission	upto 10.30 A.M. on 24.01.2019
Bid Outer Cover Opening	24.01.2019, 11.30 AM
Bid Opening (Technical)	Will be decided on the day of opening
Bid Opening (Commercial)	Will be decided on the day of opening

**REGISTRAR i/c**



# PERIYAR UNIVERSITY

SALEM- 636011, TAMIL NADU  
NAAC A Grade - State University - NIRF Rank 90

From

The Registrar  
Periyar University  
Periyar Palkalai Nagar  
Salem – 636 011.  
Tamil Nadu, India.

To

**No. PU/R/PL&D3/Physics/28012/2018**

**Date:**

**NAME OF THE SUPPLY: Purchase of Powder X-ray Diffractometer with Chiller and UPS for DST “FIST-Programe” Project in the Department of Physics**

## **Tender Conditions**

- 01) Sealed tenders will be received by the Registrar upto **10.30 a.m. on 24.01.2019** for the **“Purchase of Powder X-ray Diffractometer with Chiller and UPS for DST “FIST-Programe” Project in the Department of Physics”** as per the specifications given in the tender schedules.
- 02) The tender shall be submitted in sealed cover superscribed as **“Tender for Purchase of Powder X-ray Diffractometer with Chiller and UPS for DST “FIST-Programe” Project in the Department of Physics”** for use of Periyar University due on **24.01.2019 at 10.30 a.m.**
- 03) If the last day fixed for the receipt of tender happens to be a holiday tenders will be received on the next working day upto 10.30 a.m.
- 04) Each tender shall accompany with an **Tender Document Cost of Rs. 16,800/-**. The Tender Document Cost in the form of the Demand Draft drawn in any nationalized bank in favour of the **Registrar, Periyar University, payable at Salem.** (Separate DD)
- 05) Each tender shall accompany with an **EMD at 1% of the Instrument Value**. The EMD in the form of the Demand Draft drawn in any nationalized bank in favour of the Registrar, Periyar University, payable at Salem. Tenders without E.M.D. will be summarily rejected. E.M.D. will not carry any interest.
- 06) **Tenders received late will be returned to the tenderer unopened.**
- 07) The entries in the tender schedules shall be as for as possible without scoring and corrections and over writings and shall be legible. The unavoidable correction or scoring shall be attested by full signature of the tenderer. The tenderer should sign on each page of the tender document.

- 08) **In the tender schedule, the tenderer should quote his rate and tax for each item separately in figures and words in the corresponding column.**
- 09) If the rates quoted in the schedule differ in words and figures, the lowest quoted rate will be taken.
- 10) No revision of rates will be accepted. Rates quoted shall be firm.
- 11) The rates quoted shall be for delivery at University Campus inclusive of charges such as packing and forwarding. Discount if any should be indicated prominently. The tenderer is solely responsible till delivery in good condition.
- 12) **The tenderer should produce the materials as per the specifications given in the tender schedule.**
- 13) Tender shall be submitted only in this official form and the tenderer should sign on each page of the tenderer enclosed without any omission. Tenders with price variation will not be accepted.
- 14) The tender shall be valid for a period of One year from the date of opening. Tenderer should not withdraw his tender after the tenders are opened. In case the tender is withdrawn after opening, the E.M.D. will be forfeited.
- 15) The E.M.D. of the unsuccessful tenderers will be refunded on their request immediately after the disposal of tender by the competent authority.
- 16) **The successful tenderer shall also furnish security deposit at 2% of the value of the order. The Security Deposit will be refunded after one year from the date of supply of materials.**
- 17) In case of failure by the tenderer to supply items demanded within the period prescribed, the Registrar shall have the power to purchase from others in lieu of rejected or not delivered goods, the excess cost and expenses will be worked out and recovered from the tenderer.
- 18) Successful tenderer should execute an agreement on stamp paper to the value of ` 20/- within seven days from the date of receipt of intimation about acceptance of the tender. Failure to execute the agreement in the stipulated time will entail in forfeiture of the E.M.D.
- 19) Any dispute arising out of this contract shall be settled only on the court having jurisdiction of Salem.
- 20) The authority competent to accept the tender reserves the right to reject the tender without assigning reasons thereof.
- 21) Regarding the acceptance of supply with reference to the specifications and quality of materials supplied, the decision of the Registrar shall be final. The rejected materials should be removed within 15 days at Tenderer's cost.
- 22) This University's General rules for the supply of the materials and works will apply on this purchase also.

- 23) The goods should be supplied within 15 days of the receipt of order.
- 24) If the tenderer fails in the due performance of his supply within the time fixed, the tenderer is liable to pay as liquidated damages upto 2% per month for the supply value of such portion of the materials as have not been delivered.
- 25) The tender schedule is not transferable and it should be used only by the tenderer to whom it is officially issued.
- 26) Percentage of payment to be withheld for the effective performance of the contract, provided that withheld amounts do not exceed ten percent of the total value of contract.
- 27) The cost must include the warranty maintenance for 5 years from the date of intallation.
- 28) Complete address of the firm including year of establishment, Phone No., Fax No., E- mail address etc., may be furnished.
- 29) The tenderers shall be responsible for erection & installation of the equipment at destination site and for making it fully operational. Payment and terms and conditions if any for the same would be specified by the tenderer separately.
- 30) Canvassing in connection with tender/quotation is strictly prohibited.
- 31) The tenderer should produce solvency certificate at the time of submitting tender form. The tenderer shall furnish the Income Tax clearance certificate and copy of PAN card along with the tender documents.
- 32) The tenderer shall enclose audited statement of the firm for the last three years.
- 33) The tenderer shall attach the copy of GST/TIN/Sales Tax Certificate.
- 34) List of details of works executed and list of customers for the last three years shall be attached.
- 35) The tenderer shall submit the tender by “Two cover system”

“Two cover system” means a procedure under which the tenderers are required to simultaneously submit two separate sealed covers, one containing the Earnest Money Deposit and the details of their capability to undertake the tender (Technical Specification) which will be opened first and the second cover containing the price quotation which will be opened only if the tenderer is found qualified to execute the tender on technical Specification.

This tender is submitted subject to and agreeing to the above conditions.

### Details of EMD Enclosed

S.No.	Demand Draft No. / Date & Name of the Bank	Amount

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S.No.	Demand Draft No. / Date & Name of the Bank	Amount

## ***TENDER SCHEDULE***

### **Purchase of Powder X-ray Diffractometer with Chiller and UPS for DST “FIST-Programme” Project in the Department of Physics**

The quantities given below are approximate and are likely to be increased/ reduced.  
The rates should be quoted for the brand mentioned only.

**The rates should be inclusive of all taxes. Taxes must be exhibited separately in the bill. If not, deduction of tax (GST) will be made at the final payment.**

The Unit rates noted below are those governing payments.

The rates quoted are for delivery at the University Campus

Sl. No.	Description of the Equipment	Qty.	Rate in Rs. (Without Tax)	Amount in Rs. (With Tax)
1.	Powder X-ray Diffractometer with Chiller and UPS	1 No.		

**Specifications enclosed as Annexure**

Website: [www.periyaruniversity.ac.in](http://www.periyaruniversity.ac.in)

**TECHNICAL SPECIFICATIONS FOR Powder X-Ray Diffractometer**

Offers are invited from the reputed vendor for the procurement of fully automated floor mounted X-ray Diffractometer for XRD phase identification of Powder. Vendors might choose to quote configuration to suit all the applications, with alignment free changeover from different configurations, automatic and tool-free switching of the diffraction geometry without the need for complex adjustments. The XRD system must have auto component recognition and conflict detection of various XRD accessories and optics in real time mode.

<b>S.No.</b>	<b>TECHNICAL SPECIFICATIONS FOR Powder X-Ray Diffractometer</b>
1	Measurement of powder samples with Bragg Brentano Geometry.
2	X-ray generator: Output power 3 kW, Voltage 20- 50 kV or higher in steps of 1KV and current from 2 to 60mA in the steps of 1mA.
3	X-ray Source: Sealed tube Ceramic insulation, Cu source with 2.2Kw
4	Goniometer: step size of 0.0001 deg; range 0 to 160 deg ( $2\theta$ ); radius 240 mm or better; scan speed 0.02-50 deg/min or better.
5	The X-ray diffractometer system should overall be water cooled. Appropriate chiller to be included in the quotation and integrated.
6	The Z movement in the stage should be motorized for aligning samples of various heights.
7	All slits should be motorized with a movement of at least 10mm with step size of 0.001mm or lower.
8	Direct detecting semiconductor strip type detector capable of working in OD and 1D modes with diffracted beam monochromator for Cu radiation. The detector should have at least 200 strips of at least 75 microns thickness or better.
9	Display/ Computer/workstation: Should be high end computer with 16 GB RAM and 2TB HDD and Intel i5 processor to handle large volumes of data, 24 inch LED Screen, Laser Black and White printer, Graphics Card. Windows 10 software.
10	Software for data processing like Background subtraction, Profile fitting, Rietveld, Crystallinity, Search Match, Indexing should be part of the system. The search match software should be compatible with ICDD PDF2, PDF4 and COD library. The user should be able to make their own library.
11	Spares & consumables: Different type of standard sample holders
12	Warranty: Comprehensive warranty (including X-ray tube ) for 1 years with on-site installation and training. Additional AMC for 2 years.
13	Chiller for the above system to cool the X-ray Tube
14	The system should be upgradable to Thin Film analysis, SAXS for particle Size and Shape analysis and variable temperature attachment system in the future.

