

**G.G.D.S.D. College, Post-graduate Department of Physics, Sector
32-C, Chandigarh-160030**

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**Tender Document for the purchase of Portable Silicon based X-ray detector
with accessories**

Tender No. - SDC/DST-SERB/ 1114

Dated : 19.03.2025

Last Date for Receipt of Tender : 19.04.2025 till 12:00 p.m.

Date & Time of Opening : 21.04.2025 at 2:30 p.m.

Tender form fee: Rs. 1000/-

Earnest Money Deposit (EMD): Rs. 25,000/-

CHECK LIST FOR BIDDERS / APPLICANTS

1. The Bidder should ensure that all documents and papers submitted in this BID are fully authenticated by the authorized signatory under his signature with official seal wherever applicable.

2. The following documents form part of the BID and should be submitted with BID:

S.No	Documents to be submitted	Y /N	Documents Submitted Page No. at which Document Attached
1.	All pages of this BID document should be duly signed by the authorized signatory as a token of acceptance of all terms and conditions by the bidder. Any other document submitted by the bidder should also be signed by the authorized signatory.		
2.	Statement indicating experience of supplying such items & working with Govt. Ministries/ Departments/PSUs/College/Univ.		
3.	General Power of attorney in favor of the signatory signing the BID documents. It is not required in case of proprietary firm if the proprietor himself signs the documents.		
4.	Attested copy of Article or Memorandum of Association or partnership deed or proprietorship registration as the case may be.		
5.	Attested copy of GSTIN Registration number, if applicable.		
6.	Attested copy of PAN/Number.		
7.	Attested copy of return for last month/quarter as the case may be submitted towards Central and State Sales Tax/VAT if applicable.		
8.	Details of turn over for the last three years.		
9.	Financial Bid (Separate envelope).		
10.	Authorization Certificate.		
11.	Payment after installation and functioning.		
12.	Give list of users and their contact addresses of Thermal CVD system along with satisfactory performance certificate from the client to whom your company has supplied during the last 5 years.		

Signature of the Bidder

TENDER DOCUMENT FOR SUPPLY OF SILICON DRIFT DETECTOR (SDD) WITH ACCESSORIES

TECHNICAL SPECIFICATIONS OF SILICON DRIFT DETECTOR (SDD) WITH ACCESSORIES

01. Sealed tenders are invited from reputed Companies/supply agencies for procurement of **Portable Silicon based X-ray detector** with data acquisition system for X-ray Fluorescence (XRF) measurements in research laboratory. The interested Company/Supplier/Agency may submit their technical and financial bid documents in prescribed format in separate sealed cover. Details of specification of **Portable Silicon based X-ray detector** and other accessories are as follows: -

Sr. No.	Item Specifications		Offered specification with Make & Model No. please specify any deviation if any. Please attach separate sheet if required.
1.	Portable Silicon based X-ray detector		
a.	Configuration	SDD/PIN	
b.	Diode active area	6-50 mm ²	
c.	Diode thickness	500-625 µm	
d.	Detector window	Beryllium	
e.	Collimator material	Multilayer W/Ni/Cr/Al	
f.	Energy resolution	120-160 eV at Fe ⁵⁵	
g.	Detector inner temperature	-20 to -40 °C	
h.	Cooling system	Peltier cooled	
i.	Upper input count rate limit	~500 kcps	
	Weight	100-200 grams	
2.	Data acquisition system		
a.	Laptop	12 th Gen Intel Core i7-1255U, 16GB DDR4, 1TB SSD, Win 11, Intel Iris Xe graphics, HD Camera, dv2015TU	
b.	Printer cum scanner	Colour wireless laser printer, 42 Ppm A4 Mfp with Wifi	

(Signature of Bidder)

02. Delivery Place:

Bidder will supply and deliver the materials in requisite number at the office of **Principal, GGSDS College Sector 32-C, Chandigarh, India. 160030.**

3. Qualification Conditions:

- a) Bidder should be authorized supplier/service provider of the quoted item/work and should submit the relevant documents/certificates.
- b) Bidder should have experience of supplying such items and will have to furnish details of previous supplies.
- c) Bidder shall provide all relevant records required i.e. Income Tax Return Certificate/PAN, Commercial Tax Clearance/V.A.T. Certificate and other taxes (whichever applied)

4. Bid Price:

- a) The contract shall be for a period of Six month.
- b) The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment of any account.
- c) All duties, taxes/GST and other levies including the transportation expenses are payable by the Supplier/Agencies/Company under the contract and shall be included in total price.
- d) Each bidder shall submit only one quotation in the format supplied with Invitation for Quotation (IFQ). Bidder submitting more than one quotation for the same package will not be entertained. All the columns and requisite information's must be filled in the supplies Format.

5. Submission of Quotations/Bid:

- a) Each bidder should submit sealed quotations (in two separate part i.e. **Technical (Part – I)** and **Financial (Part – II)** in separate sealed envelopes.
- b) The following documents will form the Technical part (Part –I) of the bid (Photo copy duly self-attested to be compulsorily enclosed)
 - 1. Establishment Registration Certificate
 - 2. Current Return of Income Tax.
 - 3. Commercial Tax Clearance Certificate
 - 4. Certification of authorization of the company.
 - 5. Bid Security as stipulated in the bid document.
 - 6. Details of Work Experience.
- c) The Financial part (Part – II) of the bid shall consists of only Rate/Price in Performa supplied with the IFQ on the company's /Firm's letter pad. All the column and requisite information must be filled in the prescribed format. Bidder must quote the item wise.

- d) Award of contract on the basis of lowest evaluated price for which the bidder must quote the rate per item. Bidder can quote one or more items.

06. Performance Security:

- a) 5% of total bid/contract value will have to be deposited as performance security in form of Bank Guarantee/ Demand Draft in favour of Principal, GGDSD College payable at Chandigarh by the lowest evaluated responsive bidder before the award of work. The performance security will be refunded only after the expiry of the contract as specified in the bid document/agreement. b) The performance security deposit shall be forfeited in case any terms and conditions of the contract/ agreement etc. infringed or the bidder fails to complete the supply in time.

07. Earnest Money Deposit (Deposit):

Each Bidder will have to submit EMD 25,000/- (Rupees Twenty-Five thousand only), in the form of Demand Draft in the name of Principal, GGDSD College payable at Chandigarh.

The EMD shall be forfeited

- a) In case a bidder withdraws its bids after opening of Technical (part – I) and before the validity period of the Bid.
b) If bidder fails to deposit performance security within specified period as per intimation/ request from GGDSD College.
c) If the bidder fails to execute the agreement within specified time as intimated/ requested.

08. Validity Quotation:

Quotation shall remain valid for a period not less than 90 days after the deadline date specified for submission.

09. Evaluation of Quotations:

The Principal will evaluate and compare quotations determined to be substantially responsive i.e.

- a) Are properly signed
b) Confirm to terms, conditions, specifications, qualifications and conditions.

10. Award of Contract:

The Principal will award the contract to the bidder whose quotations has been determined to be substantially responsive, and who has offered the lowest evaluated quoted price.

- 10.1 Notwithstanding the above, the Principal reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of the contract.
10.2 The bidder whose bid is accepted will be notified of the award of contract by the Principal. The terms of the accepted offer shall be incorporated in the supply order. The validity period may be extended by the Principal by another 15 day in exceptional cases.

11. Other Terms & Conditions :

- (a) The college reserves the right to proponent/postponed/cancelled the bid, the bidder will have to abide with the decision.
- (b) Payment shall be made after the supply and submission of bills which will be subject to satisfactory supply (certified by the committee constituted for the purpose). Personnel In Charge will certify the quality and quantity of the items supplied/ work done as per specifications and recommend accordingly the extent of payment.
- (c) No preference will be given to any bidder of class of bidders, either for the price or for other terms and conditions.
- (d) Quotation may be submitted on the printed letter head of the bidder in the prescribed format supplied with IFQ.
- (e) Successful bidder will have to enter into an agreement with GGDSD College for timely execution of the Purchase order.
- (f) No payment will be made for any damage of goods supplied.
- (g) Liquidated damages provisions for damages shall be included in conditions of the contract when delays in delivery of goods, completion of work or failure of the goods or works to meet performance requirements would result in extra cost, or loss of revenue or loss of other benefits to the implementing agency.

You are requested to send your offer during working hours on or before **12.00 PM** of the **19/04/2025** in the prescribed format (enclosed herewith) in sealed envelopes in form of Technical – (Part – I) and Financial (part – II) bids /quotations to the Principal GGDSD College Sector 32-C, Chandigarh, 160030. Sealed quotations received till then will be opened in the office on **21/04/2025** at **2:00 PM** in the presence of bidders or their authorized representatives who desire to be present.

We look forward to receiving your quotations and thank you for your interest in this project.

Dr. Ajay Sharma

Principal

Goswami Ganesh Dutta

S. D. College

Sector 32-C, CHANDIGARH

S.D. College

PROFORMA FOR TECHNICAL BID (PART - I)

[illegible]

Signature of the Bidder

7

Goswami Ganesh Dutta

S.D. College

Sector 32-C, Chandigarh

PROFORMA FOR FINANCIAL BID (PART - II)

S.N.	Item	Specification	Quantity	Unit	Amount (in Rs)
1. Portable Silicon based X-ray detector			1. No	1 Each	
a.	Configuration	SDD/PIN			
b.	Diode active area	6-50 mm ²			
c.	Diode thickness	500-625 µm			
d.	Detector window	Beryllium			
e.	Collimator material	Multilayer W/Ni/Cr/Al			
f.	Energy resolution	120-160 eV at Fe ⁵⁵			
g.	Detector inner temperature	-20 to -40 °C			
h.	Cooling system	Peltier cooled			
i.	Upper input count rate limit	~500 kcps			
	Weight	100-200 grams			
2. Data acquisition system					
a.	Laptop	12 th Gen Intel Core i7-1255U, 16GB DDR4, 1TB SSD, Win 11, Intel Iris Xe graphics, IHD Camera, dv2015TU	1. No	1 Each	
b.	Printer cum scanner	Colour wireless laser printer, 42 Ppm A4 Mfp with Wifi	1. No	1 Each	

Place:

Signature of the Bidder

Date: Office Seal