



**Pt. Ravishankar Shukla University, Raipur-492010 (C.G)**  
(School of Studies in Chemistry)

**Tender Notice**

No. 1075/Chem./2019

Raipur, Date 13/02/2019

Sealed tenders are invited from reputed firms/manufacturers/ authorized dealers for Purchase of Diffuse reflectance and UV-VIS Spectrometer with integrated Sphere & accessories. Details of the tender and specification of equipment is available in the University website [www.prsu.ac.in](http://www.prsu.ac.in). The tender should accompany two separate DDs for document cost Rs.2500/- and EMD@3% of the quoted amount.

Last date of Purchase of tender form : 28/02/2019, 05:00 pm

Last date of receipt of tender : 02/03/2019, 03:00 pm

by Registered post/Speed post only.

Opening of Tender : 02/03/2019, 04:00 p.m.

Place of Opening Tender : SoS in Chemistry, Pt.RSU, Raipur (C.G.)

**Registrar**

**Dr. Shamsh Pervez**  
Professor & Fulbright Fellow  
School of Studies in Chemistry  
Pt. Ravishankar Shukla University  
Raipur-492010 (Chhattisgarh) India  
E-mail: shamshpervez@gmail.com

## TENDER FORM PART -I (TECHNICAL BID)

Part -I (Technical Bid) of Tender No	
Last Date for receipt :	
Due date for opening part -I (Technical Bid)	
Bidders offer No	
Date :	
From :	
M/s:	
To	

Dear sir ,

I/we have gone through the tendering conditions to the tender and General Condition of Contract and Special Condition of Contracts contained herein with this tender documents. I/We herby agree to supply the stores confirmng to the tender specification incorporated in ANNEXURE IV of the tender document and also agree to abide by your general condition of contract and special condition of contract contained in the tender document.


You will be at library to accept the items of stores offered by us and I/We shall be bound to supply you the stores as may be specified in the purchase order/contract.

I/We hereby to keep the price valid for your acceptance for a period of .....  
From the date of opening of Part II (Financial bid) of the tender

I/We are also enclosing herewith all the leaflets catalogue etc. pertaining to the stores offered

Your faithfully

Stamp and Signature of bidder

  
**Dr. Shamsa Pervez**  
 Professor & Fulbright Fellow  
 School of Studies in Chemistry  
 Pt. Ravishankar Shukla University  
 Raipur-492010 (Chhattisgarh)  
 shpervez@psu.ac.in

## TENDER FORM PART -II (FINANCIAL BID)

Part -II (Financial Bid) of Tender No	
Last Date for receipt :	
Due date for opening part -II (Financial Bid)	
Bidders offer No	
Date	
From	
M/s	
To	

Dear sir ,

In response to your invitation and as per your tendering and contracting condition, the prices applicable for the scope of supply contained in part-I (Technical bid) of our tender indicated in the format to this tender

I/We hereby to keep the price valid for your acceptance for a period of .....From the date of opening of Part II (Financial bid) of the tender

Your faithfully

Stamp and Signature of bidder

  
**Dr. Shamsh Pervez**  
 Professor & Fulbright Fellow  
 School of Studies in Chemistry  
 Pt. Ravishankar Shukla University  
 Raipur-492010 (Chhattisgarh) India  
 E-mail: shamshpervez@gmail.com

CERTIFICATE FROM THE VENDOR STATING THAT THE COMPANY HAS NOT BEEN  
BLACKLISTED BY ANY GOVERNMENT ORGANIZATION

To:

The Registrar

Pt. RavishankarShukla University

Raipur -492010

Chhattisgarh

Dear Sir,

This is to certify that M/s .....has not been blacklisted  
by any Government Organization at the time of submission of the tender document or before.

Yours Faithfully,


Authorized Signatories

(Name & Designation)

Date:

For and on behalf of M/s.....

Note: This letter of authority should be on the Letter-Head of the manufacturing concern and  
should be signed by a component person of the manufacture.

  
**Dr. Shamsh Pervez,**  
Professor & Fulbright Fellow  
School of Studies in Chemistry  
Pt. Ravishankar Shukla University  
Raipur-492010 (Chhattisgarh) India  
E-mail: shamshpervez@gmail.com

MANUFACTURER S AUTHORIZATION FORM (MAF)

To:

The Registrar

Pt. RavishankarShukla University

Raipur -492 010

Chhattisgarh

Tender Reference: .....

Dear Sir,

We ....., who are stabilized and reputed manufacturers of ....., do hereby authorize M/s .....(Name and address of the agent/Dealer) to offer their quotation, negotiate and conclude the contract with you against the above invitation for tender offer.

We hereby extend our full guarantee and warranty as per terms and condition of the tender and contract for the equipment and services offered this invitation for tender offered by the above firm.

Yours faithfully,


.....Authorized Signatories

.....(Name and Designation)

Date:

For and behalf of M/s .....(Name of Manufacturers)

Note: This letter of authority should be on the Letter-Head of the manufacturing concern and should be signed by a component person of the manufacture.

  
**Dr. Shamsh Pervez**  
Professor & Executive Fellow  
School of Management  
Pt. Raipur  
Raipur

**FINANCIAL OFFER (PRICE BID FORM)**

To,

The Registrar

Pt. Ravishankar Shukla University

Raipur (C.G.) 492010

Dear Sir,

1. I/We .....submitted the bid for Tender No .....Dated.....for "Supply of Instruments "at Pt.Ravishankar Shukla University Raipur (C.G.)

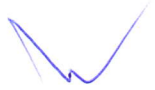
2. I/We thoroughly examined and understood instructions to tenders, scope of work, terms & conditions of contract given in the tender document and those contained appendix of Terms & Conditions of contract and agree to abide by them.

3.I/We hereby offer to supply of Equipment's at the following rates. I/We undertake that I/We are not entitled to claim any enhancement of rates on any account during the tenure of the contract.

Description of item: -

S.No.	Description Item Specification of & (Model if any )	Qty. in Units	Unit Price in Rs.	Discount (%)	Excise Duty/ Custom Duty(%)	GST (%)	Octroi (%)	Total Price in Rs.

- **Delivery Mode:** Delivery at Pt.Ravishankar Shukla University, Raipur. at site only
- Total bid price should be inclusive of all taxes and levies, transport, loading, unloading etc.
- Warranty Period: .....
- Delivery Period: .....days.
- Quotation Validity Date: - Minimum 120 Days from the date of Submission of quotation/tender.

  
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 Professor & Visiting Fellow  
 School of Studies in Chemistry  
 Pt. Ravishankar Shukla University  
 Raipur-492010 (Chhattisgarh) India  
 E-mail: shamshpervez@gmail.com

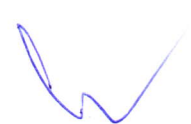
- Payment Term: Payment within 30 working days from the date of submission clear of bill with acceptance certificate from the concerned dept./Sect./MMD.

Sign of bidder: - \_\_\_\_\_

Date: - \_\_\_\_\_

Name of the bidder: - \_\_\_\_\_

Firm's Name: - \_\_\_\_\_



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**BID/TENDER PARTICULARS**

Name of the Supplier:

2 Complete address of the Supplier:

3 Availability of demonstration of equipment at PRSU,Raipur: Yes / No

4. Cost of the Tender enclosed: Yes/No [Please √] If yes,

a.) Name of the Bank \_\_\_\_\_

b.) Amount in ( ) \_\_\_\_\_

c.) Demand Draft No. \_\_\_\_\_

5. Earnest Money Deposit enclosed: Yes / No [Please √] if Yes,

a.) Name of the Bank \_\_\_\_\_

b.) Amount in ( ) \_\_\_\_\_

c.) Demand Draft No. \_\_\_\_\_

d.) Last Validity date of the enclosed DD \_\_\_\_\_

6. Communication details of the concerned contact person to whom all references shall be made regarding this tender enquiry. [NOTE: Any changes after submission of Tender documents kindly update PRSU.Raipur]

a.) Full Name:

b.) Complete Postal Address:

c.) Telephone No.:

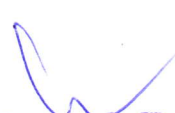
d.) Fax No.:

e.) Mobile No.:

f.) E-mail:

g.) Website Address:

Note: - Demand Drafts must be complied with CTS 2010 standards prescribed by Reserve Bank of India.

  
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## TENDER FORM

1) Addressed to:

Name of the Tendering Authority	Registrar
Address	PtRavishankarShukla University(PRSU) Raipur (Chhattisgarh)- 492010
Telephone	
Tele Fax	
Email	

2) Firm Details:

Name of Firm				
Name of Contact Person with Designation				
Registered Office Address				
Address of the Firm				
Year of Establishment				
Type of Firm	Public Limited	Private Limited	Partnership	Proprietary
Put Tick ( ) mark				
Telephone Number(s)				
Email Address/ Web Site	Email:	Web-Site:		
Fax No.				
Mobile Number	Mobile:			
Certification/Accreditation/Affiliation, if Any				

3) The requisite tender fee amounting to Rs. \_\_\_\_\_/- (Rupees <in words>) has been deposited vide DD/BC/receipt no. \_\_\_\_\_ dated \_\_\_\_\_.

4) The requisite EMD amounting to Rs. \_\_\_\_\_/- (Rupees <in words>) has been deposited vide Banker's Cheque/ DD No. \_\_\_\_\_ dated \_\_\_\_\_.

5) We agree to abide by all the terms and conditions mentioned in this form issued by the Empanelment Authority and also the further conditions of the said notice given in the attached sheets (all the pages of which have been signed by us in token of acceptance of the terms mentioned therein along with stamp of the firm).

Date:

Name &amp; Seal of the firm: \_\_\_\_\_

Authorized Signatory: \_\_\_\_\_



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## General Terms and Conditions

1. The tender should be submitted in prescribed form downloaded from the university website [www.prsu.ac.in](http://www.prsu.ac.in). The cost of the tender forms will not be refunded in any circumstance.
2. The tenders for equipments mentioned above should be submitted in the form of 1/c bids.
  - a. Technical bid
  - b. Financial bid

The interested agencies/firms are advised to submit two separate sealed envelopes superscripted "Technical bid" and "Financial bid" both sealed envelopes should be kept in a third sealed envelope superscripted "Tender No..... TENDER FOR SUPPLY/INSTALLATION OF .....(ENTER NAME OF THE EQUIPMENT with serial number)" last date of submission, date of opening of technical Bid and Financial Bid as indicated above and should be addressed to the Registrar, Pt. RavishankarShukla University, Raipur, Chhattisgarh.


3. Envelope-I (Technical Bid) The vendor must submit the following documents in Envelope
  - a. Detailed response to required technical/scientific specifications of demanded instrumental configuration along with literature/manuals of the goods/services to be supplied.
  - b. Technical compliance statement with deviation, if any.
  - c. Authorized partner/dealer/distributor certificate from the original manufacturer.
  - d. Documentary proof in support of PAN, TIN, GST No. and Service Tax No.
4. Envelope-II (Financial Bid) The vendor must submit the price Bid information mentioning all taxes/duties, For university campus, Raipur in the prescribed proforma Annexure-II. The price should be quoted in words and figures, without any errors or alterations.
5. Each tender should be accompanied by two separate demand draft
  - a. Tender Document cost
  - b. EMD @3% of the Quoted amount

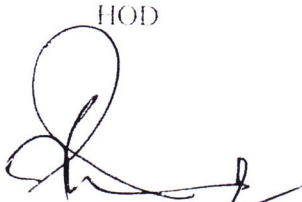
Drawn in the favour of Registrar, Pt. RavishankarShukla University, Raipur, payable at any Nationalized bank of India.

6. Late and Incomplete tenders and tenders without EMD, tender fee will not be accepted.
7. Firms which are exempted from the payment of EMD should furnish attested copy of the currently valid certificate to that effect issued by the competent authority.
8. Firm should submit minimum three supply references supplied to other Universities/ Institutes/ Govt. organization/ R&D Labs. Should provide supplied equipment details/ Name of the Organization, contact person name and mailed and contact numbers.
9. Firms having local sales and service support with trained service engineers to offer both emergency & warranty service support within short notice time.
10. All items should have original Test Certificate & warranty certificates with clear mention of item Serial No., Model No., Year of manufacturing etc. from original manufacturing company.
11. You are requested to confirm that in the event of firm is selected for placement of order, your firm will provide warranty from OEM (Original Equipment Manufacturer) of all components, sub-systems and certificates of materials from supplier that will be used in the equipment.
12. Bidders response (in YES or NO) to each and every point of demanded configuration is must.

  
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13. The cost of the equipment and all associated accessories of demanded configuration should be inclusive of all taxes, statutory levels, labour/ installation charges, packing, insurance, freight etc. All firms should quote FOR Pt. Ravishankar Shukla University, Raipur. Maximum educational discount for University as could be offered should also be mentioned.
14. The warranty period for the equipment should be for a minimum period of **Three Years** from the date of installation.
15. The exact specification, details of make, model, name of manufacturer, warranty details etc. of the item must be clearly specified. Original brochures with detailed technical literature and illustrations of the units quoted are to be attached with the offer. Details of trainings offered, warranty, maintenance service contact offered after expiry of normal warranty, spare parts availability and after-sales-service facilities available should be indicated. Offers without these are liable to be rejected.
16. For those bidders submitting tenders for more than one instrument, must submit Technical Bid and Financial Bid separately for each instrument and must be placed in individual sealed envelopes and these envelopes must be placed inside a bigger envelope. Only one model can be quoted in a tender.
17. The quoted rate should be valid for a period of 90 days.
18. The article to be delivered & installed within 30 days from the issue of P.O.
19. Successful bidder on confirmation of the tender will have to furnish a performance security of 10% of the total cost of the equipment and execute an agreement in Chhattisgarh stamp worth Rs. 100/-
20. Any delay in supplying the article from the stipulate date of delivery, will attract LD. Liquidated Damage will be applicable at the rate of 0.5% per week and limited to 10% maximum. The authority reserves the right to cancel the purchase order when LD accumulates to 10%.
21. GST will be paid extra, only if the specified taxes do not fall in the academic institution/universities certain tax exemption provisions released from time to time by central government funding agencies.
22. Unsealed quotation will be rejected and quotation must be reached on or before the due date through Speed post/Registered Post only.
23. University reserves the right to accept or reject any quotation without assigning any reason thereof.
24. All disputes will be subjected to Raipur jurisdiction.

  
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HOD  
  
**Prof. M. K. Deb**  
Head  
S.O.S in Chemistry  
Pt. Ravishankar Shukla University  
RAIPUR (C.G.)

**Technical Specification for Double Beam UV-Visible Spectrophotometer  
with variable bandwidth & Diffuse Reflectance Accessory compatible to measure  
reflectance and transmittance attenuation for particulate deposited quartz and Teflon  
filters of 47 mm diameter**

Instrument	:	The instrument is required to address one of the objectives of the proposed project to evaluate the light reflectance and transmittance optical properties of atmospheric particulate matter.  The Instrument with all supplied accessories should be accurately suitable and compatible to measure reflectance and transmittance attenuation of light with wavelength range of 190-1100 nm from particulate matter deposited on quartz filters having 47 mm diameter, as per <i>Chow et al. 2015*</i> (Chow, J.C., Wang, X., Sumlin, B.J, Gronstal, S.B, Hurbain, P.R, Trimble, D.L, Kohl, S.D, Mayorga, S.R; Riggio, G., Johnson, M., Zimmermann, R., Watson, J.G., (2015), <i>Optical Calibration and Equivalence of a Multiwavelength Thermal/Optical Carbon Analyzer, Aerosol &amp; Air Quality Research, 15: 1145-1159</i> )
Wavelength range	:	190-1100 nm
Spectral Bandwidth	:	Should have variable band width 0.5, 1, 2, 5 and 20 nm/ OR suitable variable band widths to measure optical properties of filter deposited particulate matter as per Chow et al, 2015
Photometric System	:	Double Beam Optics
Source Lamp	:	Deuterium & Tungsten/ xenon flash lamp
Detector	:	Silicon diodes preferred/ PMT
Scan speed	:	Variable from 1 to 3000 nm/min or better
Monochromator	:	Blazed holographic grating with 1200 gr/mm, Czerny- Turner with 0.2 m focal length preferred
Wavelength Accuracy	:	± 0.1 nm at D2 peak @ 656.1 nm, ± 0.3 nm for full range or better
Wavelength Reproducibility	:	± 0.1 nm or better
Stray Light	:	< 0.02 %T (At 220 nm NaI) < 0.02 %T (At 340 nm NaNO <sub>2</sub> ) < 1 %T (At 200 nm KCl)
Photometric noise (RMS)	:	< 0.00005 A @ 700 nm preferred
Photometric Range	:	± 4 A or more
Photometric Accuracy	:	± 0.002A (0-0.5 Abs), ± 0.004A (0.5-1 Abs)
Photometric Reproducibility	:	± 0.001 Abs @ 0.5 Abs
Baseline Stability	:	< 0.0003 Abs/h preferred
Cell	:	Cell (quartz) – with stopper – volume – 3.5 ml. – pack of 2
Software	:	The system should be offered with user friendly software to work in Scanning, Wavelength Program, Time-drive, Rate, Quant, Scanning Quant modes
Accessory	:	1. 50mm Transmission/Reflectance Integrating Sphere, High Sensitivity Accessory for measuring diffuse reflectance, total transmittance and diffuse transmittance. Variable angle transmission 2. Filter cassettes for quartz filters and Spectralon reflectance standard 3. Holders for filter cassettes and forceps for handling filters 4. Spectralon Reflectance standard (Labsphere 2000) 5. All other accessories required to meetout procedure described in Chow et al, 2015
Computer	:	Powder sample holder for measuring powder sample Suitable computer for the quoted UV-VIS Spectrophotometer with below minimum configuration - 500 GB HDD - 4 GB RAM - Dual core system - 19" monitor - Key board, mouse
Warranty	:	03 years or more
Delivery	:	Upto PRSU, dept of Chemistry
Other	:	The supplier should be responsible to provide the demo and minimum a week training to carryout measurements of light reflectance and transmittance attenuation, as described in Chow et al, 2015 Suitable Table and chair to place and install the instrument and accessories will be provided by the supplier of this instrument

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*Shamsh Pervez*  
25/01/2019  
PR/SGRB-EMR/2015/000920