

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
VIKRAM SARABHAI SPACE CENTRE (VSSC)
THIRUVANANTHAPURAM**

**Tender for UV-Visible Spectrometer for aqueous phase aerosol brown
carbon studies**

Bids to be submitted online

Tender No.: VSSC/PURCHASE UNIT II (AVN)/VS202200352401 dated 24-05-2023

A. Tender Details

Tender No : **VSSC/PURCHASE UNIT II (AVN)/VS202200352401**

Tender Date : **24-05-2023**

Tender Classification: **GOODS**

Purchase Entity : **PURCHASE UNIT II (AVN)**

Centre : **VIKRAM SARABHAI SPACE CENTRE (VSSC)**

UV-Visible Spectrometer for aqueous phase aerosol brown carbon studies

UV-Visible Spectrometer for aqueous phase aerosol brown carbon studies

A.1 Tender Schedule

Bid Submission Start Date : **23-05-2023 16:00**

Bid Clarification Due Date : **31-05-2023 11:00**

Bid Submission Due Date : **15-06-2023 14:00**

Bid Opening Date : **15-06-2023 15:00**

B. Tender Attachments

NA

Instructions To Vendors

1. PROFORMA FOR INSTRUCTIONS TO TENDERERS AND TERMS AND CONDITIONS OF TENDER

1. a All available technical literature, catalogues and other data in support of the specifications and details of the items should be furnished along with the offer.
 - b Samples, if called for, should be submitted free of all charges by the tenderer and the Purchaser shall not be responsible for any loss or damage thereof due to any reason whatsoever. In the event of nonacceptance of tender, the tenderer will have to remove the samples at his own expense.
 - c Approximate net and gross weight of the items offered shall be indicated in your offer. If dimensional details are available the same should also be indicated in your offer.
 - d Specifications Stores offered should strictly confirm to our specifications. Deviations, if any, should be clearly indicated by the tenderer in his quotation. The tenderer should also indicate the Make and Type number of the stores offered and provide catalogues, technical literature and samples, wherever necessary, along with the quotations. Test Certificates, wherever necessary, should be forwarded along with supplies. Wherever options have been called for in our specifications, the tenderer should address all such options. Wherever specifically mentioned by us, the tenderer could suggest changes to specifications with appropriate response for the same.
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3. ACCEPTANCE OF STORES

- a The stores shall be tendered by the Contractor for inspection at such places as may be specified by

the purchaser at the Contractors own risk, expense and cost.

b It is expressly agreed that the acceptance of the stores Contracted for, is subject to final approval by the purchaser, whose decision shall be final.

c If, in the opinion of the purchaser, all or any of the stores do not meet the performance or quality requirements specified in the Purchase Order, they may be either rejected or accepted at a price to be fixed by the purchaser and his decision as to rejection and the prices to be fixed shall be final and binding on the Contractor.

d If the whole or any part of the stores supplied are rejected in accordance with Clause No. c above, the purchaser shall be at liberty, with or without notice to the Contractor, to purchase in the open market at the expense of the Contractor stores meeting the necessary performance and quality Contracted for in place of those rejected, provided that either the purchase, or the agreement to purchase, from another supplier is made within six months from the date of rejection of the stores as aforesaid.

4. Arbitration

In the event of any disputes, differences or claims arising out of or relating to the interpretation and application of the Contract, such disputes or differences or claims shall be settled amicably by mutual consultations of the good Offices of the respective Parties and recognizing their mutual interests attempt to reach a solution satisfactory to both the parties. If such a resolution is not possible, within 30 days from the date of receipt of written notice of the existence of such disputes, then the unresolved disputes or differences or claims shall be referred to the Sole Arbitrator appointed by the Parties by mutual consent in accordance with the rules and procedures of Arbitration and Conciliation Amendment Act 2015 as amended from time to time. The arbitration shall be conducted in Bengaluru in the Arbitration and Conciliation Centre Bengaluru, Domestic and International, as per its rules and regulations. The expenses for the Arbitration shall be shared equally or as may be determined by the Arbitrator. The considered and written decision of the Arbitrator shall be final and binding between the Parties. The applicable language for Arbitration shall be English only. Work under the Contract shall be continued by the CONTRACTOR during the pendency of arbitration proceedings, without prejudice to a final adjustment in accordance with the decision of the Arbitrator unless otherwise directed in writing by the DEPARTMENT or unless the matter is such that the works cannot be possibly continued until the decision whether final or interim of the Arbitrator is obtained.

5. As a Government of India Department, this office is exempted from payment of Octroi and similar local levies. Tenderers shall ensure that necessary Exemption Certificates are obtained by them from the Purchase Officer concerned to avoid any payment of such levies.

6. a Your offer should be valid for 90 days from the date of opening of the tender.

b Prices are required to be quoted according to the units indicated in the annexed tender form. When quotations are given in terms of units other than those specified in the tender form, relationship between the two sets of units must be furnished.

7. c The term Purchase Order shall mean the communication signed on behalf of the Purchaser by an Officer duly authorised intimating the acceptance on behalf of the Purchaser on the terms and conditions mentioned or referred to in the said communication accepting the tender or offer of the Contractor for supply of stores or plant, machinery or equipment or part thereof.

8. DESPATCH The Contractor is responsible for obtaining a clear receipt from the Transport Authorities specifying the goods despatched. The consignment should be despatched with clear Railway Receipt or Lorry Receipt. If sent in any other mode, it shall be at the risk of the Contractor. Purchaser will take no responsibility for short deliveries or wrong supply of goods when the same are booked on said to contain basis. Purchaser shall pay for only such stores as are actually received by them in accordance with the Contract.

9. Force Majeure

Neither the Purchaser nor the Contractor shall be considered default of the performance of their obligations under this contract if such performance is prevented or delayed for any causes beyond the reasonable control of the parties to the contract affected, such as Acts of God, war, riots, civil commotion, illegal strikes, legal lockouts, epidemics, fire accidents, floods, earthquakes, proclamation or regulation or ordinance of any Government thereof, provided notice in writing of any such cause with necessary proof that the obligation under the contract is thereby affected or prevented or delayed, is given within 14 days from the happening of the event. As soon as the cause of force majeure has ceased to exist, the party whose ability to perform his obligation has been affected shall notify the other party of the actual delay that has occurred due to such force majeure conditions.

10. FOREIGN VENDORS ARE NOT PERMITTED TO QUOTE

a. Only Class I and Class II Local suppliers as per Make in India Policy are eligible to participate in the bid

b. The percentage of local content should be specifically mentioned in the offer, without which it will be summarily rejected.

c. Preference will be given to Class I Local supplier and in their absence, Class II Local supplier will be considered.

11. GUARANTEE AND REPLACEMENT

a The Contractor shall guarantee that the stores supplied shall comply fully with the specifications laid down, for material, workmanship and performance.

b For a period of twelve months after the acceptance of the stores, if any defects are discovered therein or any defects therein found to have developed under proper use, arising from faulty stores design or workmanship, the Contractor shall remedy such defects at his own cost provided he is called upon to do so within a period of 14 months from the date of acceptance thereof by the purchaser who shall state in writing in what respect the stores or any part thereof are faulty.

c If, in the opinion of the purchaser, it becomes necessary to replace or renew any defective stores such replacement or renewal shall be made by the Contractor free of all costs to the purchaser,

provided the notice informing the Contractor of the defect is given by the purchaser in this regard within the said period of 14 months from the date of acceptance thereof.

d Should the Contractor fail to rectify the defects, the purchaser shall have the right to reject or repair or replace at the cost of the Contractor the whole or any portion of the defective stores.

e The decision of the Purchaser notwithstanding any prior approval or acceptance or inspection thereof on behalf of the Purchaser, as to whether or not the Stores supplied by the Contractor are defective or any defect has developed within the said period of 12 months or any other period or as to whether the nature of defects requires renewal or replacement, shall be final, conclusive and binding on the Contractor.

f To fulfill guarantee conditions outlined in a to e above, the Contractor shall, at the option of the Purchaser, furnish a Bank Guarantee as prescribed by the Purchaser

12. Liquidated Damages

The Delivery Date mentioning in the Contract or Order will be the essence of the Contract. You shall strictly adhere to the delivery schedule mentioned in your quotation. Please confirm acceptance of LD clause and that you will strictly adhere to the delivery schedule.

13. **PACKING FORWARDING AND INSURANCE** The Contractor will be held responsible for the stores being sufficiently and properly packed for transport by rail, road, sea or air to withstand transit hazards and ensure safe arrival at the destination. The packing and marking of packages shall be done by and at the expense of the Contractor. The purchaser will not pay separately for transit insurance, all risks in transit being exclusively of the Contractor and the Purchaser shall pay only for such stores as are actually received in good condition in accordance with the Contract.

14. Preference will be given to those tenders offering supplies from ready stocks and on the basis of FOR destination or delivery at site.

15. **PRICES** Tender offering firm prices will be preferred. Where a price variation clause is insisted upon by a tenderer, quotation with a reasonable ceiling should be submitted. Such offers should invariably be supported by the base price taken into account at the time of tendering and also the formula for any such variations.

16. REJECTED STORES

Rejected stores will remain at destination at the Contractors risk and responsibility. If instructions for their disposal are not received from the Contractor within a period of 14 days from the date of receipt of the advice of rejection, the purchaser or his representative has, at his discretion, the right to scrap or sell or consign the rejected stores to Contractors address at the Contractors entire risk and expense, freight being payable by the Contractor at actuals.

17. Sales Tax and or other duties or levies legally leviable and intended to be claimed should be mentioned in the price bid template. If nothing is mentioned, then it will be presumed that the rate

quoted is inclusive of all taxes and duties.

18. SECURITY DEPOSIT Wherever, the Purchase Order value is Rs. 5.00 Lakhs or more, on acceptance of the tender, the Contractor shall, at the option of the Purchaser and within the period specified by him, deposit with him, in cash or in any other form as the Purchaser may determine, security deposit not exceeding three percent of the value of the Contract as the Purchaser shall specify. If the Contractor is called upon by the Purchaser to deposit, Security and the Contractor fails to provide the security within the period specified, such failure shall constitute a breach of the Contract, and the Purchaser shall be entitled to make other arrangements for the repurchase of the stores Contracted at the risk of the Contractor in terms of Sub-Clause ii and iii of clause regarding Delivery. b hereof and or to recover from the Contractor, damages arising from such cancellation.

19. TERMS AND CONDITIONS OF TENDER

20. TEST CERTIFICATE Wherever required, test certificates should be sent along with the despatch documents.

21. The authority of the person signing the tender, if called for, should be produced.

22. The Purchaser reserves the right to place order on the successful tenderer for additional quantity up to 25percent of the quantity offered by them at the rates quoted.

23. The purchaser shall be under no obligation to accept the lowest or any tender and reserves the right of acceptance of the whole or any part of the tender or portions of the quantity offered and the tenderers shall supply the same at the rates quoted.

24. The tenderer should supply along with his tender, the name of his bankers as well as the latest Income Tax clearance certificate duly countersigned by the Income Tax Officer of the Circle concerned under the seal of his office, if required by the Purchaser.

25. The term Contractor shall mean, the person, firm or company with whom or with which the order for the supply of Stores is placed and shall be deemed to include the Contractors successors, representative, heirs, executors and administrators unless excluded by the Contract.

26. The term Purchaser shall mean the President of India or his successors or assigns.

27. The term Stores shall mean what the Contractor agrees to supply under the Contract as specified in the Purchase Order including erection of plants & machinery and subsequent testing, should such a condition is included in the Purchase Order.

28. GeM Seller Registration:

All vendors shall register themselves in GeM Portal (gem.gov.in) and provide GeM Seller unique ID in the tender documents, as this ID is mandatory for award of contract.

2. Conditions for BIDDER FROM A COUNTRY WHICH SHARES LAND BORDER WITH INDIA

1. Any bidder from a country which shares a land border with India will be eligible to bid in this tender, only if the bidder is registered with the Competent Authority.

Competent Authority for the purpose of registration shall be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT).

2. Any false declaration and non-compliance of the above would be a ground for immediate rejection of offer or termination of the contract and further legal action in accordance with the laws.

3.

Validity of Registration: Registration should be valid at the time of submission of bids and should be valid at the time of placement of order.

C. Bid Templates

C.1 Technical Bid - UV-Visible Spectrometer for aqueous phase aerosol brown carbon studies

1. UV-Visible Spectrometer

Item specifications for UV-Visible Spectrometer

Sl No	Specification	Value	Compliance	Offered Specification	Remark
1	Measurement principle	Quantitative estimation of analyte concentration by measuring light absorbance (sample absorbance is directly proportional to concentration)	Yes / No / Explain		
2	Optical design	Double beam and Double Monochromator spectrophotometer	Yes / No / Explain		
3	Wavelength range	180 to 900 nm	Yes / No / Explain		
4	Light source	Pre-aligned deuterium and tungsten halogen lamps with automatic source change. It should cover the above said wavelength range.	Yes / No / Explain		
5	Grating	Concave holographic grating with ≥ 1400 lines / mm	Yes / No / Explain		
6	Wavelength resolution	≤ 0.05 nm	Yes / No / Explain		
7	Wavelength accuracy	± 0.08 nm	Yes / No / Explain		
8	Wavelength reproducibility	≤ 0.005 nm	Yes / No / Explain		
9	Scan ordinate modes	Complete spectral range scanning in ≤ 3 seconds	Yes / No / Explain		
10	Detectors	Photo Multiplier Tube (PMT)	Yes / No / Explain		

11	Photometric system	Double beam	Yes / No / Explain		
12	Photometric range (Absorbance)	8 Absorbance or better	Yes / No / Explain		
13	Photometric accuracy	< 0.0006 Absorbance or better	Yes / No / Explain		
14	Photometric reproducibility	At 1.0 Absorbance, uncertainty should be < or = 0.00016 Absorbance or better	Yes / No / Explain		
15	Photometric Noise (RMS)	< 0.0001 Absorbance at 0 Absorbance (for 190 nm)	Yes / No / Explain		
16	Stray Light at 220 nm	< 0.00007% Transmittance or better	Yes / No / Explain		
17	Baseline Flatness	± 0.0008 Absorbance	Yes / No / Explain		
18	Sampling module (compartment)	For measurement of transmittance of liquid samples at wavelengths between 180-900 nm. Necessary sample holders should be provided.	Yes / No / Explain		
19	Quartz cuvette	(a) 10 mm path length, (b) 50 mm path length, (c) 100 mm path length	Yes / No / Explain		
20	Flow Through Capillary cell	Peristaltic pump with sipper, Fiber optics capillary tube with path lengths 10 mm, 50 mm and 100 mm (for measuring absorption in the aqueous solution)	Yes / No / Explain		

21	Additional accessories	Additional accessories like syringe filters, storage vials, sampling tubes, specific type glassware, analysis kit etc. (if any) that are required during sample preparation, preservation and analysis using UV Visible Spectrometer instrument for the study of light absorbing properties of water soluble organic carbon in the quartz filter collected aerosol particulate matter need to be quoted.	Yes / No / Explain		
22	Auto sampler	With aspirating nozzle programmable to move in the X, Y, and Z directions (capacity ≥ 150 vials)	Yes / No / Explain		
23	Data system and software	PC control windows based operating software capable of equipment control, data acquisition, data control, data interpretation, integration, spectral overlay, peak integration, analysis and storage. Data system should consist of display unit, required power supply, USB interface, MS office with recent version of windows operating system.	Yes / No / Explain		
24	Power requirement	The instrument should operate at 230 V AC system at 50 Hz. All the necessary power cards should be provided.	Yes / No / Explain		

Supporting Documents required from Vendor

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	Spares and consumables required for smooth functioning of the equipment (if any) to be quoted as optional accessories.	Yes / No / Explain	
2	After standard comprehensive warranty the non-comprehensive AMC Charges for next 5 years should be quoted seperately.	Yes / No / Explain	
3	Warranty: 1 year (Comprehensive)	Yes / No / Explain	
4	Other requirements:Installation, commissioning and calibration of the equipment, training of VSSC scientists on the instrument operation and routine maintenance to be undertaken at user site	Yes / No / Explain	
5	User list:User list in India with latest model to be enclosed with the quotation.	Yes / No / Explain	
6	User Manual:Detail user manual in English to be provided.	Yes / No / Explain	
7	Brochure:Brochure in English obtained from the original manufacturer with well-defined technical details (specifications sheet for technical compliance) is to be enclosed with the quotation.	Yes / No / Explain	
8	Authorisation from manufacturer:Authorisation letter from the original equipment manufacturer, manufacturing date and calibration certificate with the tender number to be included with the quote.	Yes / No / Explain	
9	Safety requirement:The system should conform to International safety standards, designed and manufactured under a quality system, should also provide all manuals for equipment.	Yes / No / Explain	
10	This tender is proposed as a DOMESTIC PUBLIC TENDER. This tender is restricted only to Class-I and Class-II Local Suppliers as defined under DPIIT Order dtd 04/06/2020- Preference to Make in India Order-2017 Revision. Non-Local Suppliers need not quote. Foreign OEMs/Agents quoting on behalf of Foreign OEMs are not permitted to quote. High Sea Sales Quotes not permitted.	Yes / No / Explain	

11	The vendor has to compulsorily submit the compliance statement online otherwise their offer will not be considered for further evaluation. Before entering the compliance statement, vendors are advised to refer the detailed specification provided.	Yes / No / Explain	
12	GST extra as applicable. Please quote applicable G.S.T rates with HSN code. Your GST Reg.No. and details shall be furnished in your quotation	Yes / No / Explain	
13	Delivery Terms [Normal delivery terms - FOR VSSC]	Yes / No / Explain	
14	Delivery Period [Please Specify the period, LD shall be applicable in case of delayed delivery]. Mention the time required for supply , installation and commissioning.	Yes / No / Explain	
15	Payment [Within 30 days after receipt and acceptance of Item at our Stores].	Yes / No / Explain	
16	Liquidated Damages @ 0.5% per week subject to maximum of 10% of order value is applicable beyond the promised delivery schedule.	Yes / No / Explain	
17	Warranty [Minimum One year required.]	Yes / No / Explain	
18	Performance Bank Guarantee for 3% of order value valid 2 months beyond the Warranty Period to be provided.	Yes / No / Explain	

19	<p>Security Deposit: In case order value exceeds Rs. 5 lakhs Successful Tenderer shall submit Security Deposit equivalent to 3% of the order value valid for a period of 60 days beyond the date for completion of the Purchase Order. This security deposit is collected towards the performance of the Contract. The said Security Deposit shall be submitted either in the form of Bank Guarantee or Fixed Deposit receipts from Nationalised/Scheduled Banks. No exemption is applicable for MSE vendors from submission of Security Deposit. In case PSU/Autonomous bodies/Central Government organizations, Indemnity Bond shall be accepted. Wherever SD and PBG are involved, the same can be submitted in consolidated SD cum PBG, valid till completion of warranty obligations under the contract. Necessary formats will be issued to the successful tenderer along with Purchase order.</p>	Yes / No / Explain	
20	GeM Seller Unique ID	Yes / No / Explain	
21	Country of Origin	Yes / No / Explain	
22	PO ordering address in full with Contact Persons Name, E-mail id, Phone No.	Yes / No / Explain	
23	Confirm the percentage of local content in the item and attach documentary proof for the same.	Yes / No / Explain	
24	<p>Foreign vendors are not permitted to quote 1. Only Class -I and Class-II Local suppliers as per make in India policy are eligible to participate in the bid. 2. The percentage of local content should be specifically mentioned in the offer, without which will be summarily rejected 3. Preference will be given to Class-I Local Supplier and in their absence, class-II Local supplier will be considered.</p>	Yes / No / Explain	
25	Quote Validity: Minimum 90 days [for Single part Tender], Minimum 180 days [for Two part Tender] from the date of Tender opening.	Yes / No / Explain	

26	I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered.	Yes / No / Explain	
27	If any of the bidders submit any forged or false documents along with the Tender, such tenders will be summarily rejected and such bidders will be blacklisted for all future tenders.	Yes / No / Explain	
28	Attach your Quotation in PDF format also	Yes / No / Explain	
29	Any other terms	Yes / No / Explain	

C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
1	UV-Visible Spectrometer	1.00 Nos.		-		

Common charges (Applicable for all items)

Freight charge	
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