

Basic Details

Organisation Chain	State Project Directorate (RUSA) Mumbai Sardar Patel Mahavidyalaya Chanadrapur		
Tender Reference Number	E-Tender/PMUSHA/03/2025-26		
Tender ID	2025_RUSA_1187215_1	Withdrawal Allowed	Yes
Tender Type	Open Tender	Form of contract	Item Rate
Tender Category	Services	No. of Covers	2
General Technical Evaluation Allowed	No	ItemWise Technical Evaluation Allowed	No
Payment Mode	Online	Is Multi Currency Allowed For BOQ	No
Is Multi Currency Allowed For Fee	No	Allow Two Stage Bidding	No

Payment Instruments

Online Bankers	S.No	Bank Name
	1	SBI Bank

Cover Details, No. Of Covers - 2

Cover No	Cover	Document Type	Description
1	Fee/PreQual/Technical	.pdf	All documents mention in Tender Notice
2	Finance	.xls	BOQ

Tender Fee Details, [Total Fee in ₹ * - 5,500]

Tender Fee in ₹	5,000		
Processing Fee in ₹	500		
Fee Payable To	Nil	Fee Payable At	Nil
Tender Fee Exemption Allowed	No		

EMD Fee Details

EMD Amount in ₹	34,000	EMD Exemption Allowed	No
EMD Fee Type	fixed	EMD Percentage	NA
EMD Payable To	Nil	EMD Payable At	Nil

Work /Item(s)

Title	Supply of Atomic Absorption Spectrophotometer Flame				
Work Description	Supply of Atomic Absorption Spectrophotometer Flame				
Pre Qualification Details	Please refer Tender documents.				
Independent External Monitor/Remarks	NA				
Tender Value in ₹	0.00	Product Category	Miscellaneous Services	Sub category	NA
Contract Type	Tender	Bid Validity(Days)	365	Period Of Work(Days)	60
Location	Sardar Patel Mahavidyalaya Chandrapur	Pincode	442402	Pre Bid Meeting Place	NA
Pre Bid Meeting Address	NA	Pre Bid Meeting Date	NA	Bid Opening Place	Sardar Patel Mahavidyalaya Chandrapur
Should Allow NDA Tender	No	Allow Preferential Bidder	No		

Critical Dates

Publish Date	05-Jun-2025 02:00 PM	Bid Opening Date	16-Jun-2025 02:00 PM
Document Download / Sale Start Date	05-Jun-2025 02:00 PM	Document Download / Sale End Date	14-Jun-2025 05:00 PM
Clarification Start Date	NA	Clarification End Date	NA
Bid Submission Start Date	05-Jun-2025 02:00 PM	Bid Submission End Date	14-Jun-2025 05:00 PM

Tender Documents

NIT Document	S.No	Document Name	Description	Document Size (in KB)	
	1	Tendernotice_1.pdf	NIT	472.69	
Work Item Documents	S.No	Document Type	Document Name	Description	Document Size (in KB)
	1	BOQ	BOQ_2059633.xls	BOQ	316.00

Latest Corrigendum List

S.No	Corrigendum Title	Corrigendum Type	View
1	Specifications	Technical Bid	

Tender Inviting Authority

Name	Principal Sardar Patel Mahavidyalaya Chandrapur
Address	Sardar Patel Mahavidyalaya Chandrapur



**SARVODAYA SHIKSHAN MANDALI'S
SARDAR PATEL MAHAVIDYALAYA**
Ganj Ward, Chandrapur, Maharashtra, Pin - 402402

Tender Notice

Ref. no.: E-Tender/PMUSHA/03/2024-25

Date: 04-06-2025

Supply of Atomic Absorption Spectrophotometer-
Flame for Sardar Patel Mahavidyalaya, Chandrapur
e-Tendering portal_<https://mahatenders.gov.in>

Sr. No.	Name of The Equipment	EMD (RS)	Blank Tender Document Cost	Duration for Supply of Equipment
1	Atomic Absorption Spectrophotometer-Flame	34,000/-	5,000/-	Eight week from the release of work order

Tender Activities Schedule	Scheduled Date Time Venue
Start date of bid submission	4-06-2025
Last date of bid submission	14-06-2025 up to 05:00 PM
Technical Bid Opening	16-06-2025 at 02:00 PM
Financial Bid Opening	Bidders will be informed through e-Tendering portal by message and E-mail after technical evaluation of bids.
Validity of bids	90 days

Note:

1. e-Tender details shall be available up to last date of bid submission on e-Tender portal <https://mahatenders.gov.in> Tenders by Organization -- State Project Directorate (RUSA) Mumbai | Sardar Patel Mahavidyalaya, Chandrapur
2. Bidders need to be enroll on <https://mahatenders.gov.in> to get login credentials and then map their Class III Digital Signature (Signing Certificate) from USB Token.
3. 24x7 Technical Support Helpdesk - Call: 0120-4001002 / 0120-4001005 / 0120-6277787.
4. Tender Inviting Authority shall not be bound to accept the Lowest rate L1 bid.
5. Tender Inviting Authority reserves the right to cancel the Tender in whole or in part without assigning any reason at any stage during the tender process.
6. The bidders are requested to quote separately for each instrument for technical & financial bid. Bidder can participate in all three/two/one equipment tendering process.

Principal,
SARDAR PATEL MAHAVIDYALAYA,
CHANDRAPUR
**Sardar Patel Mahavidyalaya
Chandrapur**

Signature Not Verified

Digitally signed by PRAMOD
MURLIDHAR KATKAR
Date: 2025.06.05 13:11:33 IST
Location: Maharashtra-MH



Specification

Technical Specifications for Atomic Absorption Spectrophotometer-Flame

Fully automated, True double beam, vibration free optical system, PC controlled Atomic Absorption Spectrophotometer system with absorption and emission capability with deuterium background correction with following specifications and accessories:

Sr. No	Component / Particular	Specification
1.	Vendor eligibility criteria	A list of at least 3 institutes/ R&D units/industries where similar instruments have been supplied in India, including contact details (name of the person- in-charge, email, and phone number), is to be provided. The quoted model's three performance certificates/Installation report in reputed institutions in India should be enclosed duly signed and stamped by concerned authority.
2.	General	Fully External PC-controlled True Double Beam Atomic Absorption spectrometer system with Flame. Detector must be employed with dedicated areas for sample and reference beams for simultaneous background correction and system should be field upgradable for graphite furnace in future.
3.	Country of origin and condition	• Need to quote the Country of Origin & if they are Dealers or Resellers, should have to declare the OEM supplier & it's country of Origin. • Vendor needs to submit at least 5 Performance Certificate/Installation reports from their user of the quoted model and should facilitate the demonstration of the equipment quoted during technical evaluation as & when asked by buyer/customer. • Vendor may submit Research papers or articles, or Application Notes on Application or features asked in the tender. These all papers should be available in public domain. • Vendor should have Application Lab in India to support method development and trouble shooting.
4.	Turnover and Income tax payment details	Vendor need to provide Turnover and Income tax payment details of last three years.
5.	Warranty	Three years warranty.
6.	Monochromator	Littrow or Czerny Turner or equivalent design with motorized drive for automatic wavelength selection and peaking.
7.	Wavelength range	184-900 nm or better.
8.	Diffraction grating	1800 lines/mm
9.	Sensitivity	>0.8 Absorbance with precision of <0.5% RSD for 5 mg/L Cu solution.
10.	Focal length and Dispersion	Focal length >260 mm. Dispersion 1.6 nm/mm or better.



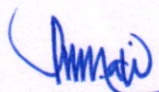
11.	Spectral Bandwidths	User selectable automatic variable slit widths from 0.2 to 2.0 nm or better with variable increment at their optimal slit height.
12.	Sample Introduction System	- System should have Modular sample introduction system consisting of a quick-change spray chamber, burner head and nebulizer. - High-Sensitivity corrosion-resistant plastic Nebulizer with Platinum/Iridium Capillary should be there with system. - The introduction system must be equipped with a high-strength inert mixing chamber, angled to ensure proper drainage. - The system should have separated 100mm Air-Acetylene. - The Software controlled Burner head adjustment in vertical and horizontal direction and should easy to set. - The flame shield should be polymer-coated for resistance to corrosion from acidic fumes from the environment or from the samples - The sampling compartment should be extremely spacious to allow easy access to change burner heads or nebulizers. - Auto Dilution system or angular burner Rotation should be software controlled for overrange concentration samples
13.	Automated Lamp Selection	Four or more lamp horizontal/vertical mount with built-in power supplies cable less hollow cathode lamps. Computer controlled lamp selection and alignment. Lamp elements and recommended operating currents should be automatically recognized and set when hollow cathode lamps and electrodeless discharge lamps are used. The software should monitor the lamp usage in hours.
14.	Deuterium Background Correction	Built-in continuum source double-beam background correction using a high-intensity deuterium arc lamp.
15.	Detector	Advanced Wide-range segmented solid-state detector, including a built-in low-noise complementary metal oxide semiconductor charge amplifier array (CMOS) or photo-multiplier tube detector (PMT). Wavelength range: 184–900 nm or better. Operator selectable read time from 0.1 to 120 seconds.
16.	Corrosion Protection	Suitable corrosion protection against moisture, dust, chemicals, and temperature extremes.
17.	Lamps	The coded hollow cathode lamps to be supplied with the system for estimation of As, Fe, Cr, Cu, Cd, Ni and Mn. The warranty on hollow cathode lamps must be at least 5000 mA hours. One multielement lamp for element Cr-Co-Cu-Fe-Mn-Ni should be quoted.
18.	Gas Controls	Fully computer-controlled with oxidant and fuel monitoring. Touch screen or keyboard-activated remote ignition system with air/acetylene. Acetylene flow should automatically be adjusted prior to the oxidant change when switching to or from nitrous oxide/acetylene operation. All safety interlock built-in and additional features like Burner Head Interlock, Nebulizer/End Cap Interlock.. The gas flow system should be software controlled flame ignition, and automated changeover of oxidant flow from acetylene to nitrous oxide.



19.	Safety Functions	Safety Interlocks should prevent ignition if the proper burner head, the nebulizer/end cap, or the burner drain system is not correctly installed; the liquid or gas pressures are too low. Interlocks should also be automatically shut down burner gases if a flame is not detected, or if any of the other interlock functions are activated. Provision should be included for safe shutdown from all operating modes in the event of a power failure.
20.	Certification	The instrument should be developed and produced in compliance with ISO certification standards viz. ISO 9001, and ISO 13485. The instrument should be provided with an AA software which provides required control parameter for GLP and instrument performance validation. The software should be easy to use and should have flexibility for lamp setup, flame control, parameter selection, and sample analysis. The instrument should have electronic protection as defined in EN61010-1. The instrument should bear the CE Mark
21.	System Power Requirements	100-230V ($\pm 10\%$), 50/60 Hz ($\pm 1\%$), single phase alternating current, 800 VA (maximum).
22.	Software/PC configuration	Should be an easy-to-use instrument software featuring wizards that guide users through method and sequence development, and method templates for rapid development of commonly used methods. Included PC should meet the minimum requirements such as desktops with the processor: 12 th generation Intel core i-7 latest configuration, Including operating system of Windows 10 professional, monitor 28 inches or more LED monitor, 2TB HHD, 7200 RPM, Intel HD Integrated Graphics, 4 GB x 2 DIMM 1600 MHz UDIMM DDR 3, Warranty 3 years onsite, Recovery DVD: Yes, and its power cord. 2 nd Serial Port, WiFi 6235. Microsoft office; security software (3 years), keyboard and mouse. Laser monochrome printer should be provided for operation of instrument through PC. The mode of operation should include: Energy profile, emission, absorbance, standard calibration, standard addition, curve fit operation – liner and quadratic.
23.	Safety standard	The instrument should bear the CE Mark or government certified safety standard.
24.	Other requirements	The instrument should be free from vibration, dust-free, ambient temperature $+10^{\circ}\text{C}$ to 35°C , with a change in 3°C per hour. Relative humidity: 20 to 80% non-condensing. One 6 KVA (branded company) online UPS with at least 60 minutes backup should be supplied. System should have facilities of repeat of result of same sample and data management.
25.	Technical support	On installation, commissioning and training by factory-trained Engineer is required. The Tenderer must have a local dedicated team, consists of sales, engineers and application engineers for optimum support of the system. The supplier must demonstrate that it has a proven appropriate set-up and capability to provide after-sales service efficiently and effectively. Details of service centre in Maharashtra with contact details should be provided. Warranty for the instrument should be at least 36 months from the date of installation of instrument. The warranty shall commence only upon successful completion of the Acceptance Test or commissioning.



26.	Test reports	Availability of test reports from central government/NABL approved / ILAC accredited laboratories to prove the conformity to the specification (Test reports to be submitted by the sellers, Mandatory).
27.	Other items	Fume Hood System. • Two Acetylene Cylinder with dual stage regulator, gas purification panel, gas lines, complete installation in vendor/supply scope. • Air Compressor with fully automated electrical air dryer to remove moisture. Certified calibration standards of 1000 mg/L of seven elements mentioned above 500 mL each.
28.	Other accessories	Sample capillary – 1no Instrument filters- 2 nos Nebulizer cleaning accessory should be supply to clean nebulizer of clogging. Impact bead – 1no
29.	Operation & Maintenance Training	Five days training to be provided to 2 to 3 staff members on all operations including software & hardware at the buyer location on installed equipment.
30.	Vent & fuming hood	Stainless steel fuming hood along with exhaust blower having efficiency to evacuate acid fumes of 6-7 m ³ /minute.
31.	Accessories Cost	Please quote UPS/PC/Printer cost separately.


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Buyer Added text based ATC clauses

copy to the Buyer before the opening Bid date.

1. Copy of acknowledgement of latest Three Years Income Tax returns filled.
2. Copy of Balance sheet for last Two years (C.A. certified).
3. Copy of P.A.N. allotted by Commissioner of the Income Tax department.
4. Copy of GST registration With Current GST Return.
5. Shop Act Registration certificate.
6. Copy of PT registration Certificate With tax paid Clearance.
7. Bidder has to Submit last year's annual turnover of 50% of estimated cost, Turn Over Certificate (C.A. certified)
8. Bidder should submit Acceptance of ATC Document
9. Bidder should submit Bid Specific MAF Document, Manufacturer Authorization form

Below are the key terms and conditions:

1. Registration and Eligibility

- **Mandatory Registration:** All suppliers must have registered GST
- **Eligibility Criteria:** Suppliers must meet eligibility requirements per product category. For instance, they may need prior experience, financial capacity, or certification from authorized agencies for certain instruments.
- **Bid-Specific Authorization:** The Bidder should upload the Bid-Specific Authorization by the specific company with the authority person's stamp and signature.

2. Listing and Pricing of Products

- **Product Listing:** Suppliers must ensure the instruments listed on GeM include complete and accurate specifications, images, warranty details, and other required documentation.
- **Price Integrity:** Prices offered on GeM should be competitive and include all applicable taxes, duties, and delivery charges (unless mentioned otherwise). Sellers cannot offer the same products at higher prices than those in other markets.
- **No Price Discrepancy:** The prices listed should remain stable throughout the contract period, and sellers must honour these prices.

3. Order Acceptance and Fulfillment

- **Order Confirmation:** Once the institute places an order, the supplier must confirm it within a stipulated time frame, as per GeM portal rules.
- **Timely Fulfillment:** Suppliers must ensure timely delivery as per the terms agreed in the purchase order. Delays or failure to deliver on time could result in penalties.
- **Delivery Charges:** Delivery must be made to the specified location, with the supplier bearing all costs unless otherwise agreed in the contract.
- **Solvency Certificate:** The Bidder should upload/submit the Solvency Certificate provided by the Bank Authority.



4. Quality and Compliance

- **Quality Standards:** Instruments supplied must meet the technical specifications and quality standards listed at the time of purchase. Substandard goods can be rejected.
- **Inspection and Testing:** The institute has internal and external experts inspecting and testing the instruments/equipment's upon delivery to ensure compliance with specifications. Suppliers must facilitate these inspections, and in case of discrepancies, the supplier must replace or rectify the issue.
- **Compliance with Industry Standards:** Products should comply with relevant industry standards, including legal and safety requirements.

5. Warranty and After-Sales Service

- **Mandatory Warranty:** According to industry/PM-USA/UGC/RUSA standards, all instruments must have a **minimum/maximum** warranty period (mentioned by the supplier). Suppliers are responsible for repairs or replacements during the warranty period.
- **AMC:** The supplier must provide at least One years of annual maintenance contracts (AMCs) without charges.
- **Installation Training:** The training should include guidance on properly installing the equipment.
- **Hands-on training (Comprehensive Understanding / On-Site Training):** The supplier must provide at least one hands-on training session ((e.g., 1 week)) to teachers and students without charge for three years from the date of purchase.
- **Internship training (Customization):** The supplier must provide at least one Internship training session to the selected students (minimum 100 students per session) without charge for three years from the date of purchase.
- **Extended Warranty:** Suppliers must provide details of their extended warranties, which the institute can negotiate may also require.
- **Manufacturer's Facility:** In some cases, especially for advanced instruments, training might occur at the manufacturer's facility to ensure proper tools and resources.
- **Virtual Training:** Depending on the technology and geographical distance, online/virtual training can be an option, particularly for follow-ups or advanced sessions.
- **Experienced Trainers:** The manufacturer must provide qualified and experienced trainers with in-depth knowledge of the instruments and can handle trainee queries.
- **Language and Communication:** Trainers should communicate effectively in the institute's/buyer's preferred language or an interpreter should be provided if necessary.
- **Training Manuals:** The manufacturer must provide the trainees with comprehensive user manuals, guides, and other relevant documentation.
- **Digital Resources:** The trainees should be provided with access to online resources, such as video tutorials, troubleshooting guides, and FAQs, for future reference.



Post-Training Support

- **Helpdesk Support:** After the training, the manufacturer should offer a helpdesk or technical support for a specified period (e.g., 6 months, 1 year, or 3 years) to assist with operational or technical issues.
- Mention the service centre in the city area (Maharashtra), a list of technicians and their contact numbers.
- **On-Demand Refresher Courses:** If needed, the contract can include options for refresher training after a certain period, either on-site or through virtual sessions.

6. Payment Terms

- **Payment through PFMS:** Instrument/equipment payments are made through the Public Financial Management System (PFMS), and suppliers must provide the necessary bank details.
- **Timely Payment:** Payments are typically made after the delivery and satisfactory inspection of goods. **The payment will be processed according to the RUSA Office regulations in Mumbai, as specified in order/letter No. 894/2024-25 dated 13 December 2024, i.e. only after this office has actually received the grants from the Government.**
- **No Advance Payment:** No advance payment is permitted.

7. Penalties and Liquidated Damages

- **Delayed Delivery:** Suppliers are liable for penalties if they fail to deliver the instruments within the specified time. Penalties are often calculated based on a percentage of the contract value per day of delay.
- **Liquidated Damages:** In case of non-performance or breach of contract, liquidated damages may be imposed on suppliers, usually deducted from the payments.
- **Blacklisting:** Continuous non-compliance, poor-quality products, or defaulting on orders can lead to blacklisting or suspension from the GeM portal.
- **Non-Blacklisted certificate:** Provide a non-Blacklisted certificate with a stamp of Rs 500/-, which should be Notarised.

8. Cancellation and Returns

- **Order Cancellation:** The institute reserves the right to cancel the order if the supplier fails to meet quality, delivery, or any other specified terms. In such cases, no payment will be made for the cancelled order.
- **Return of Goods:** If the supplied instruments do not meet the required specifications or are damaged, they may be returned at the supplier's expense for replacement or refund.

9. Performance Security

- **Forfeiture:** This deposit may be forfeited if the supplier fails to meet the contract obligations or deliver within the required timeline.



10. Dispute Resolution

- **Arbitration:** Any disputes arising out of the transaction will be resolved as per the **Arbitration and Conciliation Act, 1996**.
- **Dispute Settlement:** Suppliers must first attempt to settle any disputes amicably with the buyer/institute before escalating to arbitration.

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