

बिड दस्तावेज़ / Bid Document

बिड विवरण/Bid Details	
बिड बंद होने की तारीख/समय /Bid End Date/Time	09-04-2026 12:00:00
बिड खुलने की तारीख/समय /Bid Opening Date/Time	09-04-2026 12:30:00
बिड पेशकश वैधता (बंद होने की तारीख से)/Bid Offer Validity (From End Date)	180 (Days)
मंत्रालय/राज्य का नाम/Ministry/State Name	Delhi
विभाग का नाम/Department Name	Environment Department Delhi
संगठन का नाम/Organisation Name	Delhi Pollution Control Committee (dpcc)
कार्यालय का नाम/Office Name	5th Floor, Isbt Building, Kashmeri Gate, Delhi-110006
कुल मात्रा/Total Quantity	1
वस्तु श्रेणी /Item Category	Atomic Absorption Spectrophotometer (AAS) (Q3)
बिडर का न्यूनतम औसत वार्षिक टर्नओवर (3 वर्षों का) /Minimum Average Annual Turnover of the bidder (For 3 Years)	32 Lakh (s)
मूल उपकरण निर्माता का औसत टर्नओवर (गत 3 वर्षों का)/OEM Average Turnover (Last 3 Years)	130 Lakh (s)
उन्हीं/समान सेवा के लिए अपेक्षित विगत अनुभव के वर्ष/Years of Past Experience Required for same/similar service	3 Year (s)
एमएसएमई के लिए अनुभव के वर्षों और टर्नओवर से छूट प्रदान की गई है/MSE Relaxation for Years of Experience and Turnover	No
स्टार्टअप के लिए अनुभव के वर्षों और टर्नओवर से छूट प्रदान की गई है /Startup Relaxation for Years of Experience and Turnover	No
विक्रेता से मांगे गए दस्तावेज़/Document required from seller	Experience Criteria,Past Performance,Bidder Turnover,Certificate (Requested in ATC),OEM Authorization Certificate,OEM Annual Turnover,Additional Doc 1 (Requested in ATC),Compliance of BoQ specification and supporting document *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer

बिड विवरण/Bid Details

क्या आप निविदाकारों द्वारा अपलोड किए गए दस्तावेजों को निविदा में भाग लेने वाले सभी निविदाकारों को दिखाना चाहते हैं? संदर्भ मेन् है/Do you want to show documents uploaded by bidders to all bidders participated in bid?	Yes (Documents submitted as part of a clarification or representation during the tender/bid process will also be displayed to other participated bidders after log in)
बिड लगाने की समय सीमा स्वतः नहीं बढ़ाने के लिए आवश्यक बिड की संख्या। / Minimum number of bids required to disable automatic bid extension	1
दिनों की संख्या, जिनके लिए बिड लगाने की समय-सीमा बढ़ाई जाएगी। / Number of days for which Bid would be auto-extended	10
ऑटो एक्सटेंशन अधिकतम कितनी बार किया जाना है। / Number of Auto Extension count	2
विगत प्रदर्शन /Past Performance	50 %
बिड से रिवर्स नीलामी सक्रिय किया/Bid to RA enabled	No
बिड का प्रकार/Type of Bid	Two Packet Bid
तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय /Time allowed for Technical Clarifications during technical evaluation	2 Days
निरीक्षण आवश्यक (सूचीबद्ध निरीक्षण प्राधिकरण /जेम के साथ पूर्व पंजीकृत एजेंसियों द्वारा)/Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)	No
Payment Timelines	Payments shall be made to the Seller within 45 days of issue of consignee receipt-cum-acceptance certificate (CRAC) and on-line submission of bills (This is in supersession of 10 days time as provided in clause 12 of GeM GTC)
मूल्यांकन पद्धति/Evaluation Method	Total value wise evaluation
मध्यस्थता खंड/Arbitration Clause	No
सुलह खंड/Mediation Clause	No

ईएमडी विवरण/EMD Detail

एडवाइजरी बैंक/Advisory Bank	State Bank of India
ईएमडी राशि/EMD Amount	200000

ईपीबीजी विवरण /ePBG Detail

एडवाइजरी बैंक/Advisory Bank	State Bank of India
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ईपीबीजी प्रतिशत (%) / ePBG Percentage (%)	5.00
ईपीबीजी की आवश्यक अवधि (माह) / Duration of ePBG required (Months).	15

(a). जेम की शर्तों के अनुसार ईएमडी छूट के इच्छुक बिडर को संबंधित कैटेगरी के लिए बिड के साथ वैध समर्थित दस्तावेज़ प्रस्तुत करने है। एमएसई कैटेगरी के अंतर्गत केवल वस्तुओं के लिए विनिर्माता तथा सेवाओं के लिए सेवा प्रदाता ईएमडी से छूट के पात्र हैं। व्यापारियों को इस नीति के दायरे से बाहर रखा गया है।/EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy.

(b). ईएमडी और संपादन जमानत राशि, जहां यह लागू होती है, लाभार्थी के पक्ष में होनी चाहिए। / EMD & Performance security should be in favour of Beneficiary, wherever it is applicable.

लाभार्थी / Beneficiary :

DPCC
DPCC, 3rd Floor, DMRC IT Park, Shastri Park, Delhi-110053
(Delhi Pollution Control Committee)

बोली विभाजन लागू नहीं किया गया/ Bid splitting not applied.

एमएसई खरीद वरीयता/MSE Purchase Preference

एमएसई खरीद वरीयता/MSE Purchase Preference	No
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एमआईआई खरीद वरीयता/MII Purchase Preference

एमआईआई खरीद वरीयता/MII Purchase Preference	No
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1. The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated above in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3-year-old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
2. Experience Criteria: In respect of the filter applied for experience criteria, the Bidder or its OEM of the product offered in the bid {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU for number of Financial years as indicated above in the bid document before the bid opening date. Copies of relevant contracts and delivery acceptance certificates like CRAC to be submitted along with bid in support of having supplied some quantity during each of the Financial year. In case of bunch bids, the category of primary product having highest value should meet this criterion.
3. OEM Turn Over Criteria: The minimum average annual financial turnover of the OEM of the offered product during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the OEM is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
4. Past Performance: The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or similar Category Products for 50% of bid quantity, in at least one of the last three Financial years before the bid opening date to any Central / State Govt Organization / PSU. Copies of relevant contracts (proving supply of cumulative order quantity in any one financial year) to be submitted along with bid in support of quantity

supplied in the relevant Financial year. In case of bunch bids, the category related to primary product having highest bid value should meet this criterion.

Pre Bid Detail(s)

मूल्य भिन्नता खंड दस्तावेज़/Pre-Bid Date and Time	प्री-बिड स्थान/Pre-Bid Venue
17-03-2026 11:00:00	DPCC Laboratory, 4th Floor, ISBT Building, Kashmere Gate, Delhi-110006 For any clarification please contact Mr. Vikas-8440030536

Atomic Absorption Spectrophotometer (AAS) (1 pieces)

तकनीकी विशिष्टियाँ /Technical Specifications

[* जेम केटेगरी विशिष्टि के अनुसार / As per GeM Category Specification](#)

विवरण/Specification	विशिष्टि का नाम /Specification Name	बिड के लिए आवश्यक अनुमत मूल्य /Bid Requirement (Allowed Values)
TYPE	Type of Atomic Absorption Spectrometer (AAS)	Double beam
	Monochromator type	Double monochromators, Holographic grating, LITRO
	Detector Type	Photo Multiplier Tube (PMT), Photodiode, CMOS, Diode array
SPECTRAL	Source Wavelength - Minimum	185.0 (nanometer)
	Source Wavelength - Maximum	900.0 (nanometer)
	Accuracy (+/-)	0.01, 0.05, 0.1, 0.15, 0.2, 0.25, 0.3, 0.35, 0.4, 0.45, 0.5 (nanometer)
	Repeatability	0.05, 0.1, 0.15, 0.2, 0.25, 0.3 (nanometer)
	Diffraction grating (lines/mm)	1800
	Wavelength setting and scanning	Automatic, N/A
	Slit width Adjustment	Automatic, N/A
	Slit width range(nm)	0.1 - 2.0, N/A
	Resolution (nm/mm)	0.1, 0.25, 0.75, 1, 1.25, 1.5, 1.75, 2, 2.25, 2.75, 3 (parts per million)
	Bandwidth (nm)	0.1-1.0, 0.1 - 2.0, 0.1 - 3.0, 0.1-2.5, 0.1-1.5
	Focal length (mm)	250 to 299
LIGHT SOURCE	Type of HCL	Single element, Both Single and Multiple Element
	Number of Single element HCLs supplied (inclusive in the scope of supply)	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, N/A, 39

विवरण/Specification	विशिष्टि का नाम /Specification Name	बिड के लिए आवश्यक अनुमत मूल्य /Bid Requirement (Allowed Values)
	Number of multiple element (alloy) HCLs supplied (inclusive in the scope of supply)	N/A
	Measuring modes (K factor and standards)	Transmittance, Absorbance, Concentration (Wavelength, time), Emission
	Detectable Elements using single element HCL	Cu, Fe, Zn, Mn, Mg, B, K, Mo, Ca, As, NA, Al, Au, Be, Ba, Bi, Cd, Ce, Co, Cr, Ir, Li, Ni, Pb, Pd, Pt, Rh, Se, Si, Sn, Sr, Te, Ti, Tl, V, Zr, Hg, Sb, Ag, Na
	Detectable Elements using multi element HCL	Na-K, Ca-Mg, Si-Al, Fe-Ni, Sr-Ba, Al-Ca-Mg, Ca-Mg-Zn, Cu-Mo-Co-Zn, Cd-Cu-Pb-Zn, Cu-Fe-Zn-Mn, Co-Cr-Cu-Fe-Mn-Ni, Cd - Hg - Pb
	Measurement level	ppm level, ppb level
	Lifespan of Single element lamp (mA-Hr)	500, 1000, 2000, 3000, 4000, 5000, 6000, 7000, 8000, N/A
	Lifespan of multi-element/Alloys lamp (mA-Hr)	500, 1000, 2000, 3000, 4000, 5000, 6000, 7000, 8000, N/A
	Number of sockets on Turret	1, 2, 4, 6, 8, 10
ATOMIZER	Type of atomizer	Flame Burner, Electro thermal (Graphite furnace), Integrated Flame Burner & GF
	Nebulizer	Pneumatic nebulizer concentric tube, Pneumatic nebulizer cross flow, Fritted disk, Babington, Ultrasonic, Electro thermal vaporizer, Pt/Ir nebulizer
	Background Correction	D2 Lamp method, Zeeman background correction, Hi-speed reversal method
	Burner diameter (mm)	50, 100, N/A
	Corrosion resistant Chamber	Yes
	Time for analysis (sample)	10 - 1200 (second)
GENERIC	Display	inbuilt display, through PC
	Display type	LCD with Backlight
	Test result printing	Through inbuilt Printer, Through external printer
	If inbuilt printer, Type of printer	Thermal printer, Dot matrix, Laser b/w, Inkjet b/w, Color laser, Color inkjet, N/A
	Connectivity	USB, WIRELESS, WIFI, ETHERNET
	Safety sensors	Pressure sensor, Flame Sensor, Flame Ignition Sensor, Burner interlock, N/A, Power failure protection, Nebulizer Sensor, Auto ignition
	Burner movement (lateral, horizontal & height)	Automatic, Manual, N/A
POWER SOURCE	Power Supply	230 V A.C ± 10%, 50 Hz

विवरण/Specification	विशिष्टि का नाम /Specification Name	बिड के लिए आवश्यक अनुमत मूल्य /Bid Requirement (Allowed Values)
OPERATING CONDITIONS	Minimum Operating Temperature	-5, -10, 0, 5, 10, 15 (degree Celsius)
	Maximum Operating Temperature	35, 45, 50, 55, 60 (degree Celsius)
	Operating Humidity (RH) (%) at 40 degree c	80, 85, 90, 95 (percent)
ACCESSORIES	Type of gas cylinders	Acetylene, Nitrous oxide
	Type of Regulators supplied	With Heater, Without Heater
	Number of Regulators Supplied (inclusive in the scope of supply)	0, 1, 2, 3, 4
	Number of Acetylene Cylinders supplied (inclusive in the scope of supply)	0, 1, 2, 3, 4
	Capacity of each Acetylene cylinder (Litres)	5, 10, 20, 40, 47, 50, N/A
	Number of Nitrous oxide Cylinders supplied (inclusive in the scope of supply)	2
	Capacity of each Nitrous oxide cylinder (Litres)	5, 10, 20, 40, 47, 50, N/A
	Gas cylinders confirming to	IS : 7285 latest
	Gas cylinders having PESO certificate	Yes, N/A
	Other accessories (inclusive in the scope of supply)	Gas flow control box, SS Exhaust fume hood with blower, Schematic diagram and instruction manual, Auto sampler
	Suitable software for connecting PC & Printer (inclusive in the scope of supply)	Yes
WARRANTY / AVAILABILITY OF SPARES	warranty (Year)	1.0, 5.0 (year)
	Spares and Consumables inclusive in the scope of supply	Yes, No
CERTIFICATION	Availability of UL/CE Certification as per EN 61010-1:2010 Safety requirements for electrical equipment for measurement, control, and laboratory use General requirements	Yes, No

विवरण/Specification	विशिष्टि का नाम /Specification Name	बिड के लिए आवश्यक अनुमत मूल्य /Bid Requirement (Allowed Values)
	Conformance to EMC/EMI as per EN 61326-1:2013 Electrical equipment for measurement, control and laboratory use	Yes, No
	Availability of Test Reports from Central Govt / NABL approved / ILAC accredited Lab to prove conformity to the specification	Yes, No
	If yes test report to furnished,to the buyer on demand	N/A

Additional Specification Parameters - Atomic Absorption Spectrophotometer (AAS) (1 pieces)

Specification Parameter Name	Bid Requirement (Allowed Values)
Technical Specification is attached in ATC. Bidder must comply the same. Technical evaluation will be prepared on the basis of specification attached with ATC.	Technical Specification is attached in ATC. Bidder must comply the same. Technical evaluation will be prepared on the basis of specification attached with ATC.

* Bidders offering must also comply with the additional specification parameters mentioned above.

उपरोक्त मद के लिए इंस्टॉलेशन कमीशनिंग एंड टेस्टिंग (आईसीटी) का विवरण / Installation Commissioning and Testing (ICT) details for the above item:

% of Product Cost Payable on Product Delivery	70%
Min Cost Allocation for ICT as a % of product cost	30%
Number of days allowed for ICT after site readiness communication to seller	30 Days

परेषिती/रिपोर्टिंग अधिकारी तथा मात्रा/Consignees/Reporting Officer and Quantity

क्र.सं./S.N o.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Manoj Kumar Ranga	110006,5th Floor, ISBT Building kashmere Gate	1	60

Buyer added Bid Specific Additional Scope of Work

क्र.सं./S.N o.	Document Title	Description	रिवर्स प्रभार के अनुसार जीएसटी/Applicable i.r.o. Items
1	Specification of AAS View	Specification of AAS	Atomic Absorption Spectrophotometer (AAS)(1)

The uploaded document only contains Buyer specific Additional Scope of Work and / or Drawings for the bid items added with due approval of Buyer's competent authority. Buyer has certified that these additional scope and drawings are generalized and would not lead to any restrictive bidding.

क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें/Buyer Added Bid Specific Terms and Conditions

1. Provisions for workmen compensation, insurance, public liability, property damage, insurance etc. to be ensured by the contractor. Also, safety measures prescribed for working in Extra High Voltage & use of personnel protective equipment must be adhered to.

2. Service & Support

Availability of Service Centres: Bidder/OEM must have a Functional Service Centre in the State of each Consignee's Location in case of carry-in warranty. (Not applicable in case of goods having on-site warranty). If service center is not already there at the time of bidding, successful bidder / OEM shall have to establish one within 30 days of award of contract. Payment shall be released only after submission of documentary evidence of having Functional Service Centre.

3. Turnover

Bidder Turn Over Criteria: The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.

4. Forms of EMD and PBG

Bidders can also submit the EMD with Account Payee Demand Draft in favour of

Delhi Pollution Control Committee
payable at
Delhi

Bidder has to upload scanned copy / proof of the DD along with bid and has to ensure delivery of hardcopy to the Buyer within 5 days of Bid End date / Bid Opening date.

5. Generic

Bidder financial standing: The bidder should not be under liquidation, court receivership or similar proceedings, should not be bankrupt. Bidder to upload undertaking to this effect with bid.

6. Generic

Bidders shall quote only those products (Part of Service delivery) in the bid which are not obsolete in the market and has at least 5 years residual market life i.e. the offered product shall not be declared end-of-life by the OEM before this period.

7. Certificates

Bidder's offer is liable to be rejected if they don't upload any of the certificates / documents sought in the Bid document, ATC and Corrigendum if any.

8. Buyer Added Bid Specific ATC

Buyer Added text based ATC clauses

Technical Specifications of AAS-GTA/Flame/VGA

Sl. No.	Specifications	Requirement
01	Instrument Composition	
	Atomic Absorption Spectrophotometer (GTA/FLAME/VGA)	One set (Integrated system for Flame & Furnace is preferable)
	Unit of Burner for Flame (Air-acetylene and nitrous oxide-acetylene)	One set each
	Vapour Generation Assembly (VGA)	One set
	Graphite Tube Atomizer (GTA)	One set
	Chiller/Water Circulating unit	One set
	Auto samplers for GTA and Flame (Provision for 40 or more samples in case of auto-sampler for GTA, and 60 or more samples in case of auto-sampler for Flame.	One set
	SS fume hood for AAS with aluminium flexible pipe joint with suction pump having high durability, tensile strength and resistance to adverse condition	One set
2.	Technical Specifications	
	Atomic Absorption Spectrophotometer (AAS)	Computer controlled with built-in flame emission mode
	Wave length range	185 - 900 nm wavelength

	Sensitivity	Sensitivity at least 0.9 abs for 5 kg/ml a queous copper standard solution with < 0.5 RSD or better.
	Detection Limit	Easily cover the drinking water standard as specified in IS 10500:2012 with respect to trace elements. Minimum detection limit for Arsenic & Mercury should be 1.0µg /L & 0.1µg/L respectively.
2.1	Optics	Double beam dual blazed / holographic / Suitable Monochromator
	Focal Length	At least 250 mm focal length
	Resolution	Grating 1800 Lines/mm
	Width	Automatic bandwidth of 0.1 to 1.0 nm or more.
2.2	Flame Atomizer	All titanium or equivalent burner with impact bead / Flow spoiler, Premix Design.
	Movement	Automatic movement into the sample compartment
	Affect from Acids / Organic solvent	Resistant to acid solutions (i.e. 5 % HF, HCl, H2SO4, HNO3) or organic solvents e.g. Methyl isobutyl Ketone (MIBK)
	Flame Alignment in liquid beam	Fully automatic, optimized with motorized burner mount for vertical and horizontal burner adjustment
	Spray Chamber	Corrosion resistant.
2.3	Nebulizer	High precision able to provide manually adjustable uptake rates material of the nebulizer and related Venturi should be inert to acid solutions and organic solvents, such as MIBK.
2.4	Flame Control	Computer controlled ignition

2.5	Gas Control	Computer controlled with oxidant and fuel gases monitoring to monitor constant fuel/oxidant ratio ignition.
2.6	Safety Function	Interlocking system to prevent ignition
2.7	Essential Interlock Monitors	Burner type as well as its presence in position, air selector, flame sensor, liquid trap level, gas supply pressures and air supply anywhere in the network of gas tubing in the system
2.8	Automatic Lamp Selection Function	Computer controlled Hollow cathode lamp selection and alignment
	Lamp holder	At least 8 lamp holder with built-in power supplies for hollow cathode lamps and electrodeless discharge lamps or equivalent
	Operating Parameter setting	Automatic setting
2.9	Read Out / Display	Display facility for absorbance as well as concentration, Display of errors or error codes, absorbance range at least up to 2.0 Abs
	Scale expansion	Scale expansion at least up to 100x
	Integration time	Integration time should cover at least 0.2 to 50 seconds range
	Measurement	Measurements of mean, RSD and CV, Background only mode, integration of peak height and peak areas
2.10	Accessories/Spares with the Flame AA System	
2.10.1	Hollow Cathode Lamps	14 Hollow Cathode Lamps. One Lamp for each of the elements- Aluminium, Arsenic, Antimony, Barium, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Nickel, Selenium, and Zinc

2.10.2	Vapour Generation Assembly (VGA)	Should be flow based hydride/mercury vapour generator with option of using with or without auto sampler, having facilities for fast determination of Hg, As, Se, Sb, Te, Bi, & Sn at µg/l concentration.
	Absorption Cell	The absorption cell's material should have no effect of the high heat of the flame, and the cell for the analysis of mercury should be of a closed cell design
	Flame Arrestor	Flame arrestor should be provided in the tube which connects the assembly to the absorption cell
	Cell Design Holder	The design of the cell holder should give a firm and easily adjustable (for alignment) mounting on the burner head
	System accessories	Complete with necessary reagent bottles, connectors etc.
2.10.3	Graphite Furnace System	
(a)	Graphite Tube Atomizer (GTA)	Should be a computer controlled fully enclosed graphite tube system consisting of stabilized temperature / total pyrolytic graphite platform.
	Gas supplies	Provision of two gas supplies (programmable selectable) with independent control over the gas supply through the furnace.
	Heating Rate	Heating rate of at least 2000°C per second
	Cooling time	Cooling time < 40 seconds
	Temperature range	Temperature range ambient to 2600 °C or more in 1°C increments

	Feedback system	Feedback system for furnace temperature control, interlocks for water, gas, temperature, furnace door, graphite tube damage and mains power
	Temp. Programming	At least eight steps temperature programming facility with flexibility of programme selection, ramp time, gases, gas flow, and read trigger for each temperature step
	Control	Computer controlled with appropriate provision for print out of the furnace and sample parameters
	Display	Calibration data/graphs, temperature profiles, signal graphics and the instrument status
(b)	Chiller/Cooling Water Re-circulation Unit (Imported & durable, branded equipment is preferable.)	Refrigerating water circulation unit of appropriate capacity. No discharge of water from this water circulation unit.
2.10.4	Air Compressor with Air Filter or equivalent Air Service Unit (Imported & durable, branded equipment is preferable.)	Complete with pressure regulator quite in operation, necessary tubing and connectors and should meet the air supply requirements of AAS operation.
	Oil free pump	Oil-free, less noise pump with moisture trap or equivalent.
	Corrosion resistant	Resistant to acidic vapour and the drain valve (if any) should be made of stainless steel or equivalent corrosion resistant material.
3.	Data Work Station	
		Programme facility with multi-tasking software

3.1	Application Software	Should provide complete control of instrument with instrument status display and its various accessories
		Provide accurate and reproducible time averaged, integration, non-averaged integration, multi-level calibration
		Software should handle instrument linear absorbance reading, concentration, or emission intensity, integration time, built in statistics, calibration equation control, slope of analytical curve using operator selective calibration standard
		Built in interface for computer connection and use of optional accessories
		Comprehensive quality control protocols facility including blank, multiple quality control standards, QA/QC audit trail and calibration failure.
3.2	Computer System	
	Make	Reputed brand such as HP/Dell Inspiron/Acer or equivalent compatible with the instrument
	Processor	Intel Core i7 processor with 3.60 GHz or above
	RAM	16 GB
	SSD	1 TB
	Display	LCD or better
	Key board	Cordless, latest multimedia
	Mouse	Cordless, Optical mouse with pad
	Ethernet	64-bit auto selectable 10/100 MBPS
	Graphics	Internet ready with integrated Graphics
	Sound	Integrated sound card and inbuilt stereo speakers

	Printer	Branded multi-colour LaserJet Printer
3.3	Operation Software	Pre-loaded latest operating system with Licensed CD
		Latest MS Office, Professional with media, manual and Licensed CD (Compatible with main Instrument)
		Preloaded Antivirus with latest version of 5 years or more lifetime along with Licensed CD
4.	Quality Control Support	Supplier should provide Certificate on Installation Qualification (IQ), Performance Qualification (PQ) & 'PORT Operational Qualification (OQ) during the installation of the instrument. The activity should cover limit of detection and limit of quantification.
5.0	Additional Items	Following items to be supplied :
5.1	Gas regulators	
	Nitrous-oxide gas regulator Two (02) numbers	Nitrous-oxide gas regulator (two stage) with heater, with necessary tubing and connectors. Necessary transformer should be provided to transform this supply to the requirements of the heater. The heater should work on 230±10 volts 50 Hz AC power supply
	Acetylene gas regulator - Two (02) numbers	Acetylene gas regulator (two stage) with necessary tubing and connectors
	Nitrogen gas regulator - Two (02) numbers	Nitrogen regulator (two stage) with necessary tubing and connectors
5.2	Gas Cylinders (Filled with relevant Gas)	

	Nitrous Oxide Gas Cylinder Two (02) numbers	<p>High pressure seamless steel cylinder fitted with high</p> <p>purity Nitrous oxide gas. Should be ISI marked</p> <p>conforming to IS:7285 specifications. Flat bottom with</p> <p>valve as per complete neck ring and cap painted as</p> <p>specified under Gas Cylinder Rules, 1981 along with</p> <p>Hydraulic test certificate. Explosive certificate from Chief</p> <p>Controller of Explosives, Nagpur as per BIS standards.</p>
	Acetylene Gas Cylinder - Two (02) numbers	<p>High pressure seamless steel cylinder fitted with high</p> <p>purity Acetylene gas having gas capacity 7 m³ water</p> <p>capacity 47 litres. Cylinder should be ISI marked</p> <p>conforming to IS:7285 specifications. Flat bottom fitted</p> <p>with valve as per 15:3224. Complete with neck ring and</p> <p>cap painted as specified under Gas Cylinder Rules, 1981</p> <p>along with Hydraulic Test Certificate. Explosive</p> <p>Certificate from Chief Controller of Explosives, Nagpur as</p> <p>per BIS standards.</p>

	Nitrogen Gas Cylinder -Two (02) numbers	High pressure seamless steel cylinder fitted with high purity Nitrogen gas having gas capacity 7 m ³ water capacity 47 litres. Cylinder should be ISI marked conforming to IS:7285 specifications. Flat bottom fitted with valve as per IS:3224. Complete with neck ring and cap painted as specified under Gas Cylinder Rules, 1981 along with Hydraulic Test Certificate. Explosive Certificate from Chief Controller of Explosives, Nagpur as per BIS standards.
5.3	Vent and Fuming Hood Assembly	Stainless Steel Fuming Hood along with exhaust blower having efficiency to evacuate acid fumes of 6 —7 m ³ /minute. Stainless Steel (SS) duct of 12 ft. length
5.4	Operation Kit	Manufacturers' Standard Operation Kit including all required items, tubing, fittings for start-up /regular operation of instrument
5.5	Operation / Maintenance manual	Operation and Maintenance manual for each unit
5.6	Analytical manual	Analytical Manual including applications for Flame, VGA and graphite system
5.7	Service manual	Service Manual with one set of required tools for each system / unit
5.8	Trouble shooting charts	Trouble shooting charts
5.9	Sparc parts catalogue	Spare parts catalogue
5.10	Application notes	Application notes for trace metal analysis in environmental, biological, geological, metallurgical and industrial samples
5.11	Dust Cover	One for each unit.

5.12	Consumables	<p>For five years operation for each of the following units</p> <p>but not limited to:</p> <p>Flame AAS (basic unit, burner system) — one set each including O-rings etc.</p> <p>Vapour generation assembly - tubes, glass items, Cell</p> <p>Cell holder</p> <p>Graphite Furnace Atomizer - 50 tubes</p> <p>Auto sampler - 120 sample tubes</p>
6.0	Certified Reference Material	14 CRMs with traceable to NIST, Single element AAS standards, Volume- 100ml each, Concentration-1000 mg/l for following elements : Aluminium, Arsenic, Antimony, Barium, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Nickel, Selenium, and Zinc.
7.0	Installation in India	The company must have three or more successful installation „ in India.
8.0	Warranty	<p>Comprehensive 24 Months' warranty with spares from the</p> <p>date of installation of the instrument should be covered.</p> <p>Warranty will start from the date of complete installation.</p>
9.0	Operation and Maintenance (O&M) Training	<p>Training to be provided to two scientists on software training, operation, maintenance and trouble shooting</p> <p>aspects of the instrument.</p>
10.0	General Conditions of Supply	
10.1		<p>The instrument and all its sub units should operate on</p> <p>230±10 volts 50 Hz power supply.</p> <p>Voltage Stabilizer of desired kVA should be supplied with</p> <p>the equipment.</p>

		<p>All the operation and maintenance manuals, circuit diagrams, application notes and application software to be supplied should be in English language</p>
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9. Buyer Added Bid Specific ATC

Buyer uploaded ATC document [Click here to view the file.](#)

10. Rate Contract

Packing Material The items will be supplied by the successful bidder in its original packing material and the packing material will not be returned. Weight of packing material will not be included in quantity supplied and only net weight of the items will be counted. The packing should be of standardized weights of appropriate size. Item will not be accepted in non-standardized weights. Packing Material. The items will be supplied by the successful bidder in its original packing material and the packing material will not be returned. Weight of packing material will not be included in quantity supplied and only net weight of the items will be counted. The packing should be of standardized weights of appropriate size. Item will not be accepted in non-standardized weights.

11. Rate Contract

Bidder's offer is liable to be rejected if they dont upload any of the certificates / documents sought in the Bid document, ATC and Corrigendum if any.

12. Rate Contract

Malicious Code Certificate:

The seller should upload following certificate in the bid:-

(a) This is to certify that the Hardware and the Software being offered, as part of the contract, does not contain Embedded Malicious code that would activate procedures to :-

- (i) Inhibit the desires and designed function of the equipment.
- (ii) Cause physical damage to the user or equipment during the exploitation.
- (iii) Tap information resident or transient in the equipment/network.

(b) The firm will be considered to be in breach of the procurement contract, in case physical damage, loss of information or infringements related to copyright and Intellectual Property Right (IPRs) are caused due to activation of any such malicious code in embedded software.

13. Rate Contract

The Bidder / OEM {themselves or through reseller(s)}, should have executed project for supply and installation / commissioning of same or similar Category Products during preceding 3 financial years (i.e. current year and three previous financial years) as on opening of bid, as per following criteria:

- (i) Single order of at least 35% of estimated bid value; or
- (ii) Two orders of at least 20% each of estimated bid value; or
- (iii) Three orders of at least 15% each of estimated bid value.

Satisfactory Performance certificate issued by respective Buyer Organization for the above Orders should be uploaded with bid. In case of bunch bids, the Category related to primary product having highest bid value should meet this criterion

14. Rate Contract

Bidder Turn Over Criteria: The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid

document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.

15. **Rate Contract**

Dedicated /toll Free Telephone No. for Service Support : BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support.

16. **Rate Contract**

Escalation Matrix For Service Support : Bidder/OEM must provide Escalation Matrix of Telephone Numbers for Service Support.

17. **Rate Contract**

Availability of Service Centres: Bidder/OEM must have a Functional Service Centre in the State of each Consignee's Location in case of carry-in warranty. (Not applicable in case of goods having on-site warranty). If service center is not already there at the time of bidding, successful bidder / OEM shall have to establish one within 30 days of award of contract. Payment shall be released only after submission of documentary evidence of having Functional Service Centre.

18. **Warranty**

Warranty period of the supplied products shall be as given in specifications from the date of final acceptance of goods or after completion of installation, commissioning & testing of goods (if included in the scope of supply), at consignee location. OEM Warranty certificates must be submitted by Successful Bidder at the time of delivery of Goods. The seller should guarantee the rectification of goods in case of any break down during the guarantee period. Seller should have well established Installation, Commissioning, Training, Troubleshooting and Maintenance Service group in INDIA for attending the after sales service. Details of Service Centres near consignee destinations are to be uploaded along with the bid.

19. **Generic**

Data Sheet of the product(s) offered in the bid, are to be uploaded along with the bid documents. Buyers can match and verify the Data Sheet with the product specifications offered. In case of any unexplained mismatch of technical parameters, the bid is liable for rejection.

20. **Generic**

Experience Criteria: The Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU for 3 years before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the year. In case of bunch bids, the primary product having highest value should meet this criterion.

21. **OEM**

IMPORTED PRODUCTS: In case of imported products, OEM or Authorized Seller of OEM should have a registered office in India to provide after sales service support in India. The certificate to this effect should be submitted.

22. **Generic**

Installation, Commissioning, Testing, Configuration, Training (if any - which ever is applicable as per scope of supply) is to be carried out by OEM / OEM Certified resource or OEM authorised Reseller.

23. **Past Project Experience**

Proof for Past Experience and Project Experience clause: For fulfilling the experience criteria any

one of the following documents may be considered as valid proof for meeting the experience criteria:a. Contract copy along with Invoice(s) with self-certification by the bidder that service/supplies against the invoices have been executed.b. Execution certificate by client with contract value.c. Any other document in support of contract execution like Third Party Inspection release note, etc.Proof for Past Experience and Project Experience clause: For fulfilling the experience criteria any one of the following documents may be considered as valid proof for meeting the experience criteria:a. Contract copy along with Invoice(s) with self-certification by the bidder that service/supplies against the invoices have been executed.b. Execution certificate by client with contract value.c. Any other document in support of contract execution like Third Party Inspection release note, etc.

24. **Forms of EMD and PBG**

Successful Bidder can submit the Performance Security in the form of Fixed Deposit Receipt also (besides PBG which is allowed as per GeM GTC). FDR should be made out or pledged in the name of

Delhi Pollution Control Committee

A/C (Name of the Seller). The bank should certify on it that the deposit can be withdrawn only on the demand or with the sanction of the pledgee. For release of Security Deposit, the FDR will be released in favour of bidder by the Buyer after making endorsement on the back of the FDR duly signed and stamped along with covering letter. Successful Bidder has to upload scanned copy of the FDR document in place of PBG and has to ensure delivery of hard copy of Original FDR to the Buyer within 15 days of award of contract.

25. **Generic**

Scope of supply includes Training: Number of employees to be trained

7

, Place for Training

DPCC, 4th Floor, ISBT Building, Kashmere Gate, Delhi-110006

and Duration of training

5

days.

26. **Certificates**

The bidder is required to upload, along with the bid, all relevant certificates such as BIS licence, type test certificate, approval certificates and other certificates as prescribed in the Product Specification given in the bid document.

अस्वीकरण/Disclaimer

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bid. If any clause(s) is / are incorporated by the Buyer regarding following, the bid and resultant contracts shall be treated as null and void and such bids may be cancelled by GeM at any stage of bidding process without any notice:-

1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exemption provided to such sellers under GeM GTC.
3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category item bunched with it.
4. Creating BoQ bid for single item.
5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
7. Floating / creation of work contracts as Custom Bids in Services.

8. Seeking sample with bid or approval of samples during bid evaluation process. (However, in bids for [attached categories](#), trials are allowed as per approved procurement policy of the buyer nodal Ministries)
9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.
10. Seeking experience from specific organization / department / institute only or from foreign / export experience.
11. Creating bid for items from irrelevant categories.
12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
13. Reference of conditions published on any external site or reference to external documents/clauses.
14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.
15. Buyer added ATC Clauses which are in contravention of clauses defined by buyer in system generated bid template as indicated above in the Bid Details section, EMD Detail, ePBG Detail and MII and MSE Purchase Preference sections of the bid, unless otherwise allowed by GeM GTC.
16. In a category based bid, adding additional items, through buyer added additional scope of work/ additional terms and conditions/or any other document. If buyer needs more items along with the main item, the same must be added through bunching category based items or by bunching custom catalogs or bunching a BoQ with the main category based item, the same must not be done through ATC or Scope of Work.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

All GeM Sellers/Service Providers shall ensure full compliance with all applicable labour laws, including the provisions, rules, schemes and guidelines under the four Labour Codes i.e. the Code on Wages, 2019; the Industrial Relations Code, 2020; the Occupational Safety, Health and Working Conditions Code, 2020; and the Code on Social Security, 2020 as and when notified and brought into force by the Government of India.

For all provisions of the Labour Codes that are pending operationalisation through rules, schemes or notifications, the corresponding provisions of the pre-existing labour enactments (such as The Minimum Wages Act, 1948, The Payment of Wages Act, 1936, The Payment of Bonus Act, 1965, The Equal Remuneration Act, 1976, The Payment of Gratuity Act, 1972, etc. and relevant State Rules) shall continue to remain applicable.

The Seller/ Service Providers shall, therefore, be responsible for ensuring compliance under:

- **All notified and enforceable provisions of the new Labour Codes as mentioned hereinabove; and**
- **All operative provisions of the erstwhile Labour Laws until their complete substitution.**

All obligations relating to wages, social security, safety, working conditions, industrial relations etc. and any other statutory requirements shall be strictly met by the Seller/ Service Provider. Any non-compliance shall constitute a breach of the contract and shall entitle the Buyer to take appropriate action in accordance with the contract and applicable law.

[यह बिड सामान्य शर्तों के अंतर्गत भी शासित है /This Bid is also governed by the General Terms and Conditions](#)

जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिकारी के पास पंजीकृत हो। बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्यवाई का आधार होगा।/In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, 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. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws.

---धन्यवाद/Thank You---