



सं. पीएस/125/51/2025

दिनांक - 08 अप्रैल 2026

सेवा में / To,

विषय- CO₂, CH₄, N₂O, NH₃, and H₂O विश्लेषक की आपूर्ति, स्थापना और कमीशनिंग - मात्रा 07 सेट्स की खरिद के संदर्भ में।

Sub - Supply, Installation & Commissioning of CO₂, CH₄, N₂O, NH₃, and H₂O Analyzer Qty. 07 sets

संदर्भ - इस संस्थान का दिनांक 04/03/2026 समसंख्यक निविदा जांचपत्र

Ref - This Institute's Tender enquiry of even number dated 04/03/2026

प्रिय महोदय/ Dear Sirs,

यह संस्थान उपरोक्त विषयानुसार सामग्री की खरिद करना चाहता है। इसलिए इच्छुक बोलीदाताओं से अनुरोध है कि अपनी तकनीकी तथा कीमत बोली निम्नलिखित निर्देशानुसार प्रस्तुत करें।

This Institute wishes to procure goods as per subject cited above. Therefore, interested bidders are requested to submit their Technical and Price bids as per the instructions given below;

बोली प्रस्तुत करने की अंतिम तिथि दि. 02 अप्रैल, 2026 से 21 अप्रैल, 2026 को 1500 बजे तक बढ़ाई जाती है।

The last date of submission of bids is extended from 02nd Apr, 2026 to 21st Apr, 2026 upto 1500 hrs.

तकनीकी बोली उसी दिन 1530 बजे ऑनलाइन पद्धति द्वारा खोली जाएगी।

Technical Bids will be opened on the same day at 1530 hrs. through online mode only.

तकनीकी विशिष्टीकरण और अन्य सभी विनिमय एवं शर्तें अपरिवर्तित रहेंगी।

Technical specifications and all other terms and conditions will remain unchanged.

बोलीदाता जो उपर्युक्त निविदा में भाग लेना चाहते हैं, उन्हें वेब पोर्टल <https://moes.euniwizarde.in> पर उपलब्ध सूचना के अनुसार पंजीकृत करना होगा।

Bidders willing to participate for the above tender, has to get registered themselves on web portal <https://moes.euniwizarde.in> as per the instruction available at there. Please refer Pre-bid Minutes published on the website before submission of the bid.

धन्यवाद / Thanking you.



(श्रीमति योगिता कड / Smt. Yogita Kad)
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कृते निदेशक / for Director
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A Pre-bid meeting relating to procurement of “CO₂, CH₄, N₂O, NH₃, CO and H₂O Analyzer” was held on 11/03/2026; 11AM at IITM Pune through hybrid mode. The Committee noted that the bid has been published for “Supply Installation and Commissioning of CO₂, CH₄, N₂O, NH₃, CO and H₂O Analyzer” vide Tender Notice No. PS/125/51/2025 dated 05-03-2026. The committee discussed the points of clarification requested by the bidder.

The representatives of the following bidders attended the pre-bid meeting

1. M/s Aaxis nano technologies private limited, New Delhi
2. M/s JCS Services Pvt Ltd , M/s Picarro

Pre-bid Queries for “Supply, Installation & Commissioning of “CO ₂ , CH ₄ , N ₂ O, NH ₃ , CO and H ₂ O Analyzer” held on 11/03/2026			
M/s Aaxis nano technologies private limited, New Delhi			
Sr No.	Bidder Queries	Bid Document Terms	IITM Reply
1	We request IITM to allow delivery of 8 months from the receipt of the order, as analysers need extensive testing before shipping. Since the total quantities required are 8, we need 8 months for delivery. Installation will be difficult to complete in 2 months as the sites are very far apart. Please consider 4 months for installation	Page number : 32 Chapter 4 : 4.6 Delivery Schedule: 04 months after Receipt of Order/Establishment of L/C and installation with 2.5 month from the date of delivery.	No Change It is as per the tender
2	GPRS/GSM can be supplied, in case if no network is available at site, IITM should provide an alternative solution to transfer data.	Page number: 70 3. Consumables & Recurring Costs: • Supply all consumables, spare parts, and recurring expenses (e.g., GPRS/4G/5G SIM cards, Wi-Fi tariffs, and other connectivity charges) required for 24×7 operation of all stations.	Internet and SIM card will be provided at the site. Vendor will have to pay the recurring costs for data transfer.
3	Please allow part shipment, we will ship the materials into respective locations, 8 separate invoices will be raised.	Page number 31 GCC 2.1.1(n) The Final Destination is: 01 each instrument for following sites	The Vendor shall deliver all instruments to IITM Pune , where they will be checked and cross-calibrated before dispatching to the final destinations across India. The instruments shall be dispatched to the final destinations within one month of delivery at IITM.

			<p>Destinations are tentative and may change before dispatching the instruments.</p> <p>All costs related to transport, insurance, unpacking, repacking, installation, and reinstallation shall be borne by the vendor, with no additional cost to IITM.</p> <p>No part shipment is allowed</p>
4	<p>Aaxis Nano will be dispatching the complete package, including all accessories, to the respective project locations along with the necessary invoices.</p> <p>We kindly request IITM to process and clear payments site-wise upon delivery and successful completion of work. Additionally, we request that a provision for part-payment release be allowed. Payments will be claimed on a site-wise basis accordingly.</p>	<p>Page : 32 B Payment for Goods supplied from India:</p>	<p>Please refer to tender document for payment terms</p> <p>No Change</p> <p>It is as per the tender</p>
5	<p>10 micron filter is not standard filter size, we will supply 15micron or 7 micron filter instead of 10micron.</p>	<p>Page number 68: Filters (140 micron, 40 micron, 10 micron)with each GHG analyser</p>	<p>07 micron filter should be supplied instead of 10 micron filter. Rest are same. All the filters asked in the tender should have proper connectors to connect the inlet tube (1/4 inch inlet and outlet).</p>
6	<p>Please confirm if the precisions mentioned here are “guaranteed precision for the analyser and not typical precision”.</p>	<p>Page number 66: 2, Technical specifications, including Accessories Precision: (Traceability to WMO-recommended standards)</p>	<p>No Change It is as per the tender</p>

7	Request IITM to revise the precision “Guaranteed precision” of the analyser must be As per WMO standards. N ₂ O: 0.1 ppb or better CO: 2 ppb or better Please clarify. Since these are reference stations we request iitm to accept analysers which guarantees precision as per WMO. The N ₂ O and CO measurements should be done in mid-infra-red to get the best precision and accuracy.	Page number 66: 2, Technical specifications, including Accessories Precision (Traceability to WMO-recommended standards)	No Change It is as per the tender
8	Please confirm if integrity pact should be submitted in stamp paper, if so, kindly advise with the stamp paper value.	Page number 59: Format of the Integrity Pact PRE CONTRACT INTEGRITY PACT	Stamp paper value is Rs. 500/-. It should be submitted with the technical bid.
9	Please confirm the drift value required for this analyser		Specifications are as per WMO guidelines so no further change proposed.
10	Number of manpower required for each site		TEC has recommended CAMC instead of OMC
11	Will lightning arrester be provided at the site		Yes, lightning arrester will be provided at the site.
12	Spare filter, inlet system or element kit ?		We need spare filters
13	What’s is the use of 5 inlet system		Inlet systems will be used for different heights at tower
M/s JCS Services Pvt Ltd			
1	Please confirm that the OMC for 5 years will begin on the date of installation and continue for 2 years beyond the warranty.	- Initial Warranty: 01-year - Extended warranty: 02 years after the initial warranty period. - Comprehensive Operational and Maintenance Contract (OMC) - 05 years after the extended warranty period	OMC has been replaced with CAMC throughout the tender document, and all references shall be interpreted accordingly. A 3-year warranty is not included in the 5-year CAMC period. It is additional. A total of 08 years of service is required - 01 year initial warranty -02 years extended warranty - 05 year CAMC (including

			<p>consumables without manpower) Four visits per CAMC year are required. Any emergency visit beyond the included limit may be quoted separately. Vendor should quote CAMC (including consumables including spares and consumables, without manpower) instead of OMC</p>
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Revised Specifications

	Tendered specifications	Revised Specifications	Justification
1.	<p>Page No. 67, item no. 2. in the table: “PTFE Sampling Tube – 200 meter”</p>	<p>“Sample line of size 1/4 inch OD (High quality Synflex dekabon, black colour)– 200 meters”</p>	<p>PTFE tubes are not ideal for NH3 gas because it will stick on the walls of the tube. However, the Synflex Dekabon tube has metal coating inside, which is ideal for NH3 as well as other gases here.</p>
2.	<p>Page No. 68, Sr. No. 4 in the table: “Filters (140 micron, 40 micron, 10 micron) with each GHG analyzer-20 unit each”</p>	<p>07 micron filter should be supplied instead of 10 micron filter. Revised specs: “Filters (140 micron, 40 micron, 07 micron) with each GHG analyzer – 20 unit each”</p>	<p>07 micron filter more effectively removes finer particulates, reducing contamination and protecting sensitive analyzers without significantly restricting airflow.</p>
3.	<p>Page No. 68, Sr. No. 5 in the table: “Rack Mount for Analyzers, Mass flow controller and pressure gauge, with each analyzer – 02 unit”</p>	<p>“Rack Mount for Analyzers – 01 nos.” Revised specs: “Rack Mount with each analyzer – 01 unit.” “Mass flow controller and pressure gauge, with each analyzer – 02 unit”</p>	<p>Rack Mount device is externally attached to the analyzer so we need only 01 unit with each analyzer. Spare Rack Mount not required as its fixed metal device on the sensor.</p>
4.	<p>None</p>	<p>Analog Interface Card with each analyzer – 01 unit</p>	<p>This is missing in the tendered technical specifications. An analog interface card in GHG analyzers is used to convert measured gas concentrations into</p>

			standardized analog signals for real-time data transmission to data loggers, control systems, or external monitoring networks.
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It is clarified that “CAMC (Comprehensive Annual Maintenance Contract)” shall be read in place of “OMC/OAMC”, wherever mentioned in the tender document (**Tender Notice No. PS/125/51/2025 dt. 05 March 2026 Supply, Installation & Commissioning of CO₂, CH₄, N₂O, NH₃, and H₂O Analyzer Qty. 07 sets**), including but not limited to the following sections: Page 32 (C.b) Payment for Services supplied from India: (b) AMC/CAMC/OMC), Page 35 (Clause 4.2 Scope of Supply, vi), Page 37 (Clause 4.5 (ii)), v) Page 69-71 (Post Warranty Services) and Page 72 (Appendix-1 (B)); and the same shall apply to any other occurrence, if any, in the document.

On Page 69-71, “Post Warranty Services – Extended Warranty, Annual Maintenance Contract (AMC), Comprehensive Annual Maintenance Contract (CAMC), and Operations & Maintenance” shall be read as follows in place of OMC terms:

Initial Warranty: 01Year, Extended Warranty: 02 years after the initial warranty period. CAMC: 05 years after expiry of the extended warranty period. The CAMC shall be comprehensive in nature and shall include all services required for complete operation, maintenance, and upkeep of the system. This includes four scheduled maintenance visits per CAMC year (emergency visit over and above may be quoted separately) to installation sites , internal cleaning of sensors and analyzers, repair and replacement of all spares and consumables (such as desiccants, filters and other required consumables), mechanical alignment, and full system verification as per OEM specifications. The scope shall also cover inspection of all hardware components, cabling, and software interfaces to ensure proper operation and data integrity. Any corrective maintenance required shall be carried out promptly to minimize downtime. The vendor shall include all components, spare parts, instrument software, remote access and monitoring software with licence, consumables, and services required for proper functioning of the system under CAMC.

Comprehensive Annual Maintenance Contract (CMAC), SLA Terms and Penalty thereof.

During the term of the CMAC contract, the VENDOR will maintain the equipment in perfect working order and condition.

a) The Bidder shall rectify any defects, faults and failures in the equipment and shall repair/replace worn out or defective parts of the equipment on all days. In case any defects, faults and failures in the equipment could not be repaired or rectified during the said period, the engineers of the VENDOR are required to accomplish their duties beyond the said schedules in case of any situation if it warrants. In cases where unserviceable parts of the equipment need replacement, the VENDOR shall replace such parts, at no extra cost to the Institute, with brand new parts or those equivalents to manufacturer’s specification. However, VENDOR shall keep sufficient stock of spares at Institute’s premises and at the premises of the VENDOR.

b) The maximum response time for a maintenance complaint from the site of installation (i.e. time required for Vendor’s maintenance engineers to report to the installation after a request call / fax / emails made or letter is written) shall not exceed 48 hours.

c) The VENDOR shall ensure that faults and failures intimated by Institute as above are set right within 05 working days of being informed of the same.

d) The VENDOR shall ensure that the full configuration of the equipment is available to the INSTITUTE in proper working condition i.e. uptime of 95% of the days on yearly basis.

e) For purpose of calculating penalty, uptime is calculated as under:

$$\text{Uptime (\%)} = \frac{\text{Total Days in Quarter (3 months)} - \text{Downtime Days in Quarter (3 months)}}{\text{Total Days in Quarter (3 months)}} \times 100$$

for SLA uptime shall be as under;

Sr. no.	Uptime Range	Penalty
1.	90–85%	10% of CAMC value for the quarter
2.	85–80%	15% of CAMC value for the quarter
3.	Below 80–75%	20% of CAMC value for the quarter
4.	In case if it falls below 75%	Institute may invoke / forfeit PBG

g) The VENDOR shall ensure that the meantime between failures (including any malfunctioning, breakdown or fault) in the equipment or any part thereof, as calculated during any and every quarter (period of three consecutive months) is not less than 30 days.

h) Preventive maintenance: the VENDOR shall conduct Preventive Maintenance (including but not limited to inspection, testing, satisfactory execution of all diagnostics, cleaning and removal of dust and dirt from the interior and exterior of the equipment, and necessary repair of the equipment) once within quarter (3 months) of the installation and during the currency of this agreement on a day and time to be mutually agreed upon. Notwithstanding the foregoing the VENDOR recognizes Institute's operational needs and agrees that the Institute shall have the right to require the VENDOR to adjourn preventive maintenance from any scheduled time to a date and time as required.

i) All engineering changes generally adopted hereafter by the VENDOR for equipment similar to that covered by this AGREEMENT, shall be made to the equipment covered under this AGREEMENT.

j) Qualified maintenance engineers totally familiar with the equipment shall perform all repairs and maintenance service described herein.

k) The Institute shall maintain a register at its site in which, the Institute's operator / supervisor shall record each event of failure and / or malfunction of the equipment. The VENDOR's engineer shall enter the details of the action taken in such register. Additionally every time a preventive or corrective maintenance is carried out, the VENDOR's engineer shall make, effect in duplicate, a field call report which shall be signed by him and thereafter countersigned by the Institute's official. The original of the field call report shall be handed over to the Institute's official.

1. The VENDOR shall provide replacement equipment if any equipment is out of the premises for repairs.
2. The VENDOR's maintenance personnel shall, be given access to the equipment when necessary, for purpose of performing the repair and maintenance services indicated in this agreement.
3. No term or provision hereof shall be deemed waived and no breach excused, unless such waiver or consent shall be in writing and signed by the party claimed to have waived or consented. Any consent by any party to or waiver of a breach by other, whether express or implied, shall not constitute a consent to or waiver of any excuse for another different or subsequent breach.
4. On account of any negligence, commission or omission by the engineers of the VENDOR and if any loss or damage caused to the Equipment, the VENDOR shall indemnify/pay/reimburse the loss suffered by the INSTITUTE.
5. In the event of failure of the Service Provider to render the Services or in the event of termination of agreement or expiry of term or otherwise, without prejudice to any other right, the Institute at its sole discretion may make alternate arrangement for getting the Services contracted with another vendor. In such case, the Institute shall give prior notice to the existing Service Provider. The existing Service Provider shall continue to provide services as per the terms of contract until a New Service Provider completely takes over the work. During the transition phase, the existing Service Provider shall render all reasonable assistance to the new Service Provider within such period prescribed by the Institute, as no extra cost to the Institute, for ensuring smooth switch over and continuity of services. If existing vendor is breach of this obligation, they shall be liable for paying a penalty of as provided on demand to the Institute, which may be settled from the payment of invoices or Performance Institute Guarantee for the contracted period.
6. Director, IITM reserves the right to cancel the contract part or full thereof without assigning any reason.