

**High-precision Carbon Dioxide, Methane, and Carbon
Monoxide Atmospheric Environmental Monitoring Instrument
(Songjiang Chedun Station)
international competitive bidding document**

(Volume 2)

Tender number: 1069-254Z20265581

**Project Name: High-precision Carbon Dioxide, Methane, and Carbon
Monoxide Atmospheric Environmental Monitoring Instrument
(Songjiang Chedun Station)**

Tendering Unit: Shanghai Environmental Monitoring Center

Tendering agency: Shanghai Zhongshi Construction Consulting Co., Ltd.



catalogue

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Chapter 1 Invitation to Bid

(Tender No.: 1069-254Z20265581)

Shanghai Zhongshi Construction Consulting Co., Ltd. has been entrusted by the tenderer to conduct an international open competitive bidding for the following products and services, which will be announced on the China International Tendering Network on April 10, 2026. This bidding adopts the traditional bidding method, and qualified bidders are now invited to participate in the bidding.

1. Tender Conditions

1.1 Project Overview:

This project involves public procurement of high-precision atmospheric environmental monitoring instruments for carbon dioxide, methane, and carbon monoxide (Songjiang Chedun Station) (bulk purchase).

This tender requires the seller to provide mature products with extensive experience in design, production, installation and commissioning, as well as user training, along with robust after-sales technical support.

1.2 Status of fund availability or source confirmation: Confirmed

1.3 Explanation of project readiness for bidding: Ready

2. Tender content:

2.1 Tender Project Number: 1069-254Z20265581

2.2 Tender Project Name: High-precision Carbon Dioxide, Methane, and Carbon Monoxide Atmospheric Environmental Monitoring Instrument (Songjiang Chedun Station)

2.3 Project implementation location: China Shanghai

2.4 List of Tender Products (Major Equipment):

name s of thing s	Item Name	Quantity/Unit	Brief technical specifications	remarks
1.	High-precision atmospheric environmental monitoring instrument for carbon dioxide, methane,	1 set	For details, refer to Chapter 8: List of Goods Requirements and Technical Specifications	Internal agency code: Zhaowan 2025-5581, budget amount: RMB 1.5 million, procurement number: 0026-00022284

	and carbon monoxide (Songjian g Chedun Station)			
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3. Bidder Qualification Requirements

3.1 Bidders participating in this project must meet the following requirements:

- 1) The bidder must be the manufacturer of the instruments and equipment being bid for or hold the exclusive authorization from the manufacturer/Chinese mainland regional general agent (the format of the manufacturer's authorization letter in the bidding documents also applies to the authorization letter issued by agents responsible for sales operations in China within the formal sales system of major equipment manufacturers. When such agents issue authorization letters, they must simultaneously provide the still valid agency certificate for product sales issued by the manufacturer to the agent).
- 2) Bidders within the customs territory shall possess independent legal person status and have not been listed as dishonest judgment debtors on the "Credit China" website (www.creditchina.gov.cn) or the China Government Procurement Network (www.ccgp.gov.cn), major tax violation subjects, or serious illegal and dishonest behavior records in government procurement within three years prior to the deadline for submission of tender documents.
- 3) Bidders from outside the jurisdiction must provide valid corporate/business registration documents.

3.2 Acceptance of consortium bids: No

3.3 Can a bidder participate in the tender if they have not obtained the tender documents? No.

4. Obtaining Tender Documents

4.1 Tender document procurement start date: April 10,2026

4.2 Deadline for tender document procurement: April 17,2026

4.3 Tender Document Acquisition Location/Electronic Download Method: Suppliers should follow the "Zhongshi Jianzi" WeChat official account, click "Download Documents" in the lower right corner of the main interface, follow the instructions to obtain and download procurement documents, or visit the physical location for collection.

4.4 Tender document price: ¥500/\$100

4.5 Other Notes: From April 10,2026 to the morning of April 17,2026:9:00–11:00 AM, and 13:00–4:00 PM (excluding holidays).

Note: Suppliers who have not obtained the tender documents are not eligible to participate in the bidding. If fewer than three potential bidders purchase the tender documents after the release period expires, the tenderer may conduct a new tender in accordance with the law.

4.6 Required documents for registration:

- 1) Supplier qualification certification documents (such as copies of business license, legal person registration certificate, or enterprise registration certificate);
- 2) Power of Attorney and identity documents of the authorized person (copies);

Note: All submitted materials must include official seals on copies. Any missing documents will result in rejection by the tender agent. Registration materials must match the qualification certificates provided in the tender documents; discrepancies will be resolved by the tender documents. Bidder eligibility will be determined by the evaluation committee.

5. Submission of Tender Documents

Bid submission deadline (bid opening time): 09:30:00 AM on May 7, 2026 (Beijing Time)

Bid submission address: Shanghai Zhongshi Construction Consulting Co., Ltd. (Meeting Room, 3rd Floor, Zhongshi Office Building, No.35, Lane 528, Caoyang Road, Putuo District, Shanghai. Please check the specific meeting room displayed on the first-floor screen that day).

Bid opening venue: Shanghai Zhongshi Construction Consulting Co., Ltd. (Meeting Room, 3rd Floor, Zhongshi Office Building, No.35, Lane 528, Caoyang Road, Putuo District, Shanghai. Please check the specific meeting room on the first-floor display board for details).

6. Bidders shall complete registration and information verification on the Bi 联网

(<https://www.ebnew.com>) or the Electronic Trading Platform for Mechanical and Electrical Product Bidding and Tendering (<https://www.chinabidding.com>) before submitting their bids. The bid evaluation results will be published on the Bi 联网 and China International Tendering Network.

7. Contact Information

Tenderer: Shanghai Environmental Monitoring Center

Address: No.55 Sanjiang Road, Xuhui District, Shanghai

Contact person: Teacher Shi

Tel: 021-24011953

Tendering agency: Shanghai Zhongshi Construction Consulting Co., Ltd.

Address: No.35, Lane 528, Caoyang Road, Putuo District, Shanghai

Contact persons: Chen Jie, Ge Shishi

For inquiries regarding registration, invoices, or deposit matters, please call: 021-62445201
(Teacher Li)

Consultation hotline for other matters: 021-62340833,021-62340828

Fax: 021-62446678

Mailboxes: chenjie@cwcc.net.cn, geshishi@cwcc.net

8. Remittance Methods

Bank account of the bidding agency (in RMB): Shanghai Bank Yuyuan Road Branch

Bank account for tender agency (USD): Bank of Shanghai Changning Branch

Account number (RMB): 31641800003023916

Account number (USD): 3164631405000272107

Other: SWIFT CODE: BSHCNSHXXX

Company address: No.35, Lane 528, Caoyang Road, Putuo District, Shanghai (NO.35, LANE 528, CAOYANG ROAD)
9.Other matters: /

Chapter 2 Instructions to Bidders and Bid Document Form

The detailed specifications for the goods to be procured in this table constitute specific supplements and amendments to the Bidder's Instructions in Chapter 1 of Volume 1. In case of any discrepancies, this data sheet shall prevail.

regulation number	content
Description	Description
1.1	<p>Tenderer: Shanghai Environmental Monitoring Center Address: No.55 Sanjiang Road, Xuhui District, Shanghai Contact person: Teacher Shi Tel: 021-24011953</p>
1.2	<p>Tendering agency: Shanghai Zhongshi Construction Consulting Co., Ltd. Address: No.35, Lane 528, Caoyang Road, Putuo District, Shanghai Contact persons: Chen Jie, Ge Shishi For inquiries regarding registration, invoices, or deposit matters, please call: 021-62445201 (Teacher Li) Consultation hotline for other matters: 021-62340833,021-62340828 Fax: 021-62446678 Mailboxes: chenjie@cwcc.net.cn, geshishi@cwcc.net</p>
1.3	<p>Project Overview: This project involves public procurement of high-precision atmospheric environmental monitoring instruments for carbon dioxide, methane, and carbon monoxide (Songjiang Chedun Station) (bulk purchase).</p> <p>This tender requires the seller to provide mature products with extensive experience in design, production, installation and commissioning, as well as user training, along with robust after-sales technical support.</p> <p>Nature of funds: Fiscal funds</p> <p>This tendering process is for projects that are legally required to undergo bidding procedures. Where the tender documents do not specify certain provisions, operations shall be conducted in accordance with relevant laws and regulations of the People's Republic of China, as well as the "Implementation Measures for International Tendering and Bidding of Mechanical and Electrical Products (Trial)" (Order No.1 [2014] of the Ministry of Commerce of the People's Republic of China).</p>
2.2 1)	<p>Qualification of supplier country restrictions: All legal entities or other organizations originating from the People's Republic of China or countries/regions with normal trade relations with the People's Republic of China are eligible to submit bids.</p>
bidding documents	
6.1	<p>Deadline for submitting clarification requests on the tender documents: 09:30:00 AM on April 21,2026 (Beijing Time)</p>

Preparation of Tender Documents	
8.	<p>Bid language: Chinese or Chinese and English (in case of inconsistency between the two languages, Chinese shall prevail; all foreign language documents must include Chinese translations).</p> <p>The bid evaluation report for this tender is prepared in Chinese.</p>
*10.3	This project allows only one bid proposal per bidder; otherwise, the bid will be rejected.
11.2	Incomplete or missing quotations are not permitted. Bids containing any missing information will be rejected.
Bid Price and Currency	
*11.4	We do not accept selective bids or bids with additional conditions. Such bids will result in bid rejection.
11.5	<p>Bid price limit:</p> <p>Total budget: RMB 1.5 million;</p> <p>Procurement number: 0026-00022284.</p> <p>Note: If a bidder's offer exceeds any specified bid limit, their submission will be rejected.</p> <p>If exchange rate fluctuations during final settlement result in the actual settlement amount in RMB exceeding the procurement budget, the bidder shall bear the excess amount.</p>
11.6.1	<p>Goods provided within the territory of the People's Republic of China:</p> <p>1) Goods manufactured within the territory</p> <p>① * Factory price (including the main unit, standard accessories, and spare parts during the warranty period) / EXW</p> <p>② Provide transportation, insurance, and associated costs for goods delivery within customs territory to the final destination; please quote separately and include these expenses in the total bid price;</p> <p>③ Other ancillary service fees: including specialized tool fees, training fees, technical service fees, and other ancillary service fees related to the execution of this contract.</p> <p>2) Goods already imported before the bid submission deadline</p> <p>① *Warehouse delivery price (including the main unit, standard accessories, and spare parts during the warranty period)</p> <p>② Provide transportation, insurance, and associated costs for goods delivery within customs territory to the final destination; please quote separately and include these expenses in the total bid price;</p>

	<p>③ Other ancillary service fees: Including specialized tool fees, training fees, technical service fees, and other ancillary service charges related to the execution of this contract. (Unless otherwise specified, all references to "domestic" in this tender document shall be interpreted as "within the territory of the People's Republic of China," and "overseas" shall be interpreted as "outside the territory of the People's Republic of China.")</p>
*11.6.2	<p>Goods provided from outside the People's Republic of China:</p> <p>1) *DDP delivery location specified by the user (including host equipment, standard accessories, and spare parts within the warranty period)</p> <p>2) Other ancillary service fees: including specialized tool fees, training fees, technical service fees, and other ancillary service fees related to the execution of this contract.</p> <p>The tender documents must include a detailed configuration list of the submitted products.</p> <p>For products originating from the United States subject to additional tariffs as stipulated by the Tariff Commission of the State Council, the customs-related taxes incurred during declaration shall be borne by the successful bidder and included in the total bid price.</p>
11.9	<p>Nature of bid price: If the bidder wins the bid, the approved bid price shall remain fixed throughout the contract execution and cannot be altered for any reason.</p>
12.1	<p>Bid currency (for goods and services provided within the territory of the People's Republic of China): Renminbi (RMB), and the bidder must be a resident of the People's Republic of China.</p>
12.2	<p>Bid currency (for goods and services provided outside the customs territory of the People's Republic of China): US dollars or other internationally circulated currencies, and the bidder must be located outside the customs territory of the People's Republic of China.</p>
<p>Preparation and Submission of Tender Documents</p>	
*13.1	<p>This project does not accept consortium bidding.</p>
13.3	<p>Qualification requirements for qualified bidders and supporting documents: Bidders participating in this project must meet the following requirements</p> <p>1) The bidder must be the manufacturer of the instruments and equipment being bid for or hold the exclusive authorization from the manufacturer/Chinese mainland regional general agent (the format of the manufacturer's authorization letter in the bidding documents also applies to the authorization letter issued by agents responsible for sales operations in China within the formal sales system of major equipment manufacturers. When such agents issue authorization letters, they must simultaneously provide the still valid agency certificate for product sales issued by the</p>

	<p>manufacturer to the agent).</p> <p>2) Bidders within the customs territory shall possess independent legal person status and have not been listed as dishonest judgment debtors on the "Credit China" website (www.creditchina.gov.cn) or the China Government Procurement Network (www.ccgp.gov.cn), major tax violation subjects, or serious illegal and dishonest behavior records in government procurement within three years prior to the deadline for submission of tender documents.</p> <p>3) Bidders from outside the jurisdiction must provide valid corporate/business registration documents.</p>
14.3	<p>List of specialized tools and spare parts:</p> <p>Specialized tools required for normal use and maintenance of goods, as well as spare parts needed during performance testing, acceptance inspection, and the warranty period after formal commissioning. Relevant costs should be recorded in the "Specialized Tools" and "Spare Parts" sections of the "Supply Category Sub-item Quotation Form" respectively, and included in the total bid price.</p> <p>1) A list of spare parts and specialized tools required for normal and continuous operation of the goods from the time of acceptance by the tenderer until the end of the warranty period;</p> <p>2) Bidders shall provide technical support documentation for key technical clauses or parameters marked with an asterisk ("*") in their tender documents. The supporting materials must be in the form of printed materials publicly released by the manufacturer of the tendered goods, test reports issued by testing institutions, or other formats permitted in the tender documents' bidding specifications. Any documentation failing to meet these requirements shall be deemed invalid.</p> <p><u>Other forms of technical support materials: printed copies of the latest information released on the manufacturer's website.</u></p>
*15.1	<p>This tender requires bidders to submit a bid bond, with the currency of the bid bond being RMB or foreign currency freely convertible at banks within China; the amount of the bid bond shall not be lower than the following standards (this tender requires bidders to submit a bid bond, with the currency of the bid bond being RMB or foreign currency freely convertible at banks within China; the amount of the bid bond shall not be lower than the following standards (when submitted in foreign currency, the amount shall be calculated based on the first foreign currency spot purchase rate published by the Bank of China on the fourteenth (14) day before the bid deadline)).</p> <p>Bid bond amount:</p> <p>High-precision atmospheric environmental monitoring instrument for carbon dioxide, methane, and carbon monoxide (Songjiang Chedun Station) (Heavy): RMB 20,000 yuan in total;</p> <p>Deadline for deposit submission: Same as the bid submission deadline, subject to</p>

	<p>actual deposit receipt.</p> <p>Submission location: Zhongshi Office Building, No.35, Lane 528, Caoyang Road, Putuo District, Shanghai</p> <p>Submission methods: Bank guarantee (the format of the bid security bank guarantee must be consistent with the format provided in the Appendix of Volume I of the tender documents, and its validity period shall not be shorter than the bid validity period. Any deviation will result in rejection), transfer, remittance, check, or other methods accepted by the agent unit.</p> <p>Bid security transfer account:</p> <p>Account Name: Shanghai Zhongshi Construction Consulting Co., Ltd. (Special Account)</p> <p>Bank account of the bidding agency (in RMB): Shanghai Bank Yuyuan Road Branch Account number: 31641803001602577</p> <p>Bank account of the tendering agency (USD): Shanghai Bank Changning Branch SWIFT CODE: BSHCNSHXXX</p> <p>Account number (USD): 3164631405000272107</p> <p>Company Address: No.35, Lane 528, Caoyang Road, Putuo District, Shanghai</p> <ol style="list-style-type: none"> 1. The above account name must be fully completed, including the suffix (special account), where the character "zhang" in the account name contains the radical "jin" (a Chinese character meaning "cloth"). Typos or missing characters may result in failed remittance and delayed deposit of the security deposit. 2. The internal project number and package number of the designated agency must be specified, e.g.: Tender Case No.2025-5581, Package Number: Package/, Bid Bond. 3. Bidders are prohibited from submitting bid bonds via personal accounts, non-bidder entity accounts, or cash. <p>Note: All associated costs (including but not limited to handling fees) arising from the submission and refund of bid bonds shall be borne by the bidder.</p>
16.1	<p>validity of bids :</p> <p>The bid shall remain valid for 180 days from the deadline for submission of bid documents.</p>
17.1	<p>Number of tender documents: 1 original copy, 4 duplicate copies, and 1 electronic version.</p> <p>Bidders shall submit one electronic copy of the complete tender documents, which must contain identical content to the paper version (including: the manufacturer's authorization letter for this project, itemized quotation tables, and quotation lists as separate scanned copies, with technical and commercial deviation tables in Excel format). The CD-ROM shall be submitted either separately or sealed with the tender documents.</p>

	<p>In electronic tender documents, general files or tables should be in Word or Excel format; drawings should be in AutoCAD format; and image files should be in JPEG or TIF format.</p> <p>For multi-package projects: Each package constitutes an independent unit. Qualified suppliers may submit bids for any single package or multiple packages, but must not split a package's contents for separate bidding. Each supplier is limited to winning only one package. Bid documents for individual packages must be bound into separate volumes, and submitting responses that fragment package contents will result in bid invalidation.</p>
*17.2	Every page of the tender document shall be signed by the responsible person of the organization or their authorized representative with their surname or initials.
18.2 1)	<p>Submission of tender documents to:</p> <p style="padding-left: 40px;">Shanghai Zhongshi Construction Consulting Co., Ltd. (Meeting Room on the 3rd Floor of Zhongshi Office Building, No.35, Lane 528, Caoyang Road, Putuo District, Shanghai. Please refer to the specific meeting room displayed on the first-floor screen that day.)</p> <p style="padding-left: 40px;">If tender documents are submitted via registered mail or express delivery, the outer envelope must clearly display the following information:</p> <p>(1) Postal code: 200063</p> <p>(2) Recipient address: China Shanghai Putuo District Caoyang Road 528 Lane No.35 Zhongshi Office Building</p> <p>(3) Recipient: The contact person specified in Section 1.2 of this data sheet</p> <p>For submission of tender documents via registered mail or express delivery, the submission time shall be determined by the recipient's signature date. If a bidder fails to send an authorized representative to attend the bid opening ceremony, it shall be deemed as acceptance of the bid opening results without objection to the entire bid opening process.</p>
18.2 2)	<p>Title and number of the bidding invitation:</p> <p>Tender Project Name: High-Precision Carbon Dioxide, Methane, and Carbon Monoxide Atmospheric Environmental Monitoring Instrument (Songjiang Chedun Station) (Repetition)</p> <p>Tender number: 1069-254Z20265581</p> <p>Specify the note: 'Do not open before 09:30:00 (Beijing Time) on May 7, 2026.'</p>
*19.1	Bid submission deadline: 09:30:00 AM on May 7, 2026 (Beijing Time)
Bid Opening	
22.1	<p>Bid opening date: Same as the bid submission deadline</p> <p>Location: Shanghai Zhongshi Construction Consulting Co., Ltd. (Meeting Room, 3rd Floor, Zhongshi Office Building, No.35, Lane 528, Caoyang Road, Putuo District,</p>

	Shanghai. Please check the specific meeting room on the first-floor display board for details.)
	Bid Evaluation Bid Evaluation
23.1	The bidding evaluation method for this tender is the lowest bid price method.
24.5.2	<p>During the technical evaluation process, bids will be rejected if any of the following circumstances occur.</p> <p>1) Failure to comply with the requirement of asterisk () marked critical clauses (parameters) specified in the technical specifications of the tender documents, or failure to provide technical documentation supporting the asterisk (*) marked critical clauses (parameters) as required by the tender documents;</p> <p>2) General technical clauses exceed the maximum allowable deviation range by 10% or exceed the maximum number of allowable deviations by 3 items.</p>
25.	The Renminbi (RMB) shall serve as the evaluation currency for this tender. To facilitate bid evaluation and comparison, if multiple currencies are included in the bid quotations, the exchange rate between foreign currencies and RMB, as published by the Bank of China headquarters on the bid opening date, shall be used to convert the bid currency into the specified evaluation currency in the bid documentation table, thereby enabling accurate bid evaluation calculations.
26.4	In accordance with Article 26.3 of these Instructions, the bid evaluation price shall be adjusted using quantitative methods for the selected evaluation factors 1 through 5 in this tender documentation.
26.4.1	<p>Inland transportation, insurance, and other ancillary services for goods after customs clearance and delivery to designated locations:</p> <p>The project site for this contract is designated by the Shanghai Environmental Monitoring Center (Shanghai). Bidders shall provide:</p> <p>(1) Estimated dimensions and transportation weight of each packaging box;</p> <p>(2) The EXW (Factory Delivery) price per packaging box (for domestic shipments) and DDP (Delivered Duty Paid) destination (for overseas shipments);</p> <p>(3) As specified in Format IV-3 'Bid Itemized Quotation Format' under Chapter IV of this tender document, the freight and insurance costs to the final destination must be clearly stated.</p>
*26.4.2	<p>Delivery timeline: Refer to Chapter 4 for details including the Bill of Materials and technical specifications.</p> <p>Delivery location: Designated site by Shanghai Environmental Monitoring Center (Shanghai).</p> <p>From the date of contract execution until November 30,2026, with delivery to be completed by July 31,2026. If the seller fails to deliver the qualified goods as stipulated in the contract, a penalty of 0.1% of the total contract price shall be paid to</p>

	<p>the buyer for each day of delay, and the buyer's losses resulting from the delay shall be borne by the seller.</p> <p>Selected option: Not applicable</p> <p>Percentage adjustment (%):/</p>
*26.4.3	Payment terms: No deviations are permitted. Any deviation will result in bid rejection.
*26.4.4	Costs for components and spare parts: Underreporting is strictly prohibited, as any omission will result in bid rejection.
26.4.5	China spare parts supply and after-sales service facilities within the customs territory: Bidders shall have maintenance service facilities and spare parts inventory within the territory of China. If not, they shall propose corresponding after-sales service plans and costs, which will be included in the bid evaluation price. Otherwise, the bid evaluation price will be increased by 1%.
*26.4.6	Estimated operation and maintenance costs for the bidding equipment: Not applicable.
26.4.7	Equipment Performance and Productivity: Selected Options: 1) All clause parameters, indicators, or requirements marked with an asterisk () in the technical specifications of the tender documents (hereinafter referred to as "technical requirements") shall constitute primary technical requirements. Similarly, clauses marked with asterisks (*) in the commercial requirements section shall be considered primary commercial requirements. Bids for corresponding packages will be rejected if the goods/services provided by bidders or their committed conditions fail to meet these primary technical or commercial requirements. All requirements not marked with asterisks (*) in the technical specifications represent general technical requirements. For each non-compliance with such requirements, the bid evaluation price will be increased by 1% above the approved bid price for the corresponding equipment. If a bidder's goods/services or committed conditions fail to meet three or more general technical/general commercial requirements (including any lowest-level clauses marked with numbers or symbols in this tender document, as defined herein), the corresponding bid will be rejected.
*26.4.8	<p>Other additional bid evaluation factors and criteria:</p> <p>In addition to the rejection criteria specified in Section 10.3, Sections 26.4.1-26.4.7 of this data sheet, and the "Additional Changes Applicable to This Tender" section, we hereby summarize and explain other rejection conditions and standards stipulated by relevant laws, regulations, rules, and the Bidder's Instructions in Chapter 1 of this tender document:</p> <p>(1) Main Business Requirements</p> <p>Bidders must provide substantive responses to the key commercial requirements specified in this clause within their tender documents. If the bid evaluation committee identifies any of the following circumstances during the commercial assessment</p>

process (including but not limited to those involving bidders, manufacturers of tendered goods, or tender documents), the bid will be rejected:

(a) The bidder or its manufacturer has a conflict of interest with the tenderer that may compromise the fairness of the tendering process;

(b) Bidders who participated in pre-project consultations or tender document preparation;

(c) The responsible persons of different bidders are the same individual or have controlling or managerial relationships;

(d) The bidder has committed illegal acts such as bid rigging, fraud, or bribery;

(e) The bid price exceeds the maximum bid limit specified in the tender documents (where such limit or its calculation method is stipulated);

(f) Unqualified bidder status (including failure to be a normal trading country of the People's Republic of China; any affiliation between the bidder/manufacturer and the tenderer, tendering agency, or related consulting institutions; lack of legal and financial independence, or status as a legally operating legal entity or other organization);

(g) Failure to complete and submit the "Bid Document" in accordance with Format IV-1 specified in Chapter IV of the tender documents;

(h) Failure to complete and submit the "Bid Opening Summary Form" and various itemized quotation tables in accordance with Format IV-2 and Format IV-3 specified in Chapter IV of the tender documents;

(i) Failure to complete and submit deviation forms in accordance with Format IV-5 and IV-6 specified in Chapter IV of the tender documents;

(j) Insufficient validity period of the bid;

(k) The bidder fails to submit the bid bond, provides an insufficient bond amount, uses an unsupported currency for the bid bond, submits an original bid bond certificate, offers an expired bid bond certificate, or provides a bid bond in an improper format, or the issuing bank or format of the bid bond certificate does not comply with Chapter IV-7 of the tender documents.

(l) The tender documents lack the signature of the unit's responsible person, or the signatory does not possess a valid authorization letter from the responsible person (the format of the unit's responsible person authorization letter is specified in Format IV-8 of Chapter IV in the tender documents);

(m) The tender documents are not signed in accordance with regulations (including per-page minor signatures);

(n) The bidder or manufacturer's qualifications or submitted qualification documents fail to meet the requirements specified in the tender documents.

Qualification documents include:

(i) Qualification Statement (format as specified in Format IV-9-1, Chapter IV of the

Tender Document);

(ii) Manufacturer qualification statement (format as specified in Chapter IV-9-2 of the tender documents);

(iii) Qualification statement for trading companies (acting as agents) (refer to Format IV-9-3 in Chapter IV of the tender documents; this statement is not required for manufacturers submitting bids directly);

(iv) Authorization letter issued by the manufacturer (format: Refer to Format IV-9-4 in Chapter IV of the tender documents. Manufacturers bidding directly need not submit this authorization letter. Trading companies (acting as agents) or integrators must provide authorization letters from relevant equipment manufacturers in accordance with the goods requirement list and technical specifications specified in the tender documents); (v) Certificates (format: Refer to Format IV-9-5 in Chapter IV of the tender documents);

(vi) Bank credit certificate (issued by the bank within three months prior to the bid opening date; refer to Annex 6-2 for the reference format);

(vii) A screenshot of the website that was not listed as a dishonest judgment debtor or a major tax violation subject by the Ministry of Finance of China before the bidding deadline on the "Credit China" website (www.creditchina.gov.cn), as well as a screenshot of the website that was listed on the record list of serious illegal and dishonest behaviors in government procurement on the "China Government Procurement Network" (www.ccgp.gov.cn);

(vii) Supplier's written declaration (format as specified in Chapter IV-10 of the tender documents).

(o) Submitting bids beyond the authorized scope of business operations;

(p) Failure to complete valid registration and pass information verification on the bidding website (URL: <http://www.chinabidding.com>) before the bid submission deadline;

(q) The committed quality assurance period does not comply with the requirements specified in the tender documents;

(r) Unless expressly permitted under Article 11.5 of this specification sheet, inclusion of price adjustment requirements in the tender documents;

(s) Bidders participating in consortium bidding have failed to submit a joint bidding agreement, or the agreement fails to specify the consortium organizer, the respective responsibilities and tasks to be undertaken by consortium members, or the joint liability among consortium members (applicable only to tender projects accepting consortium bids);

(t) The designated arbitration institution, rules, or venue does not comply with Article 32.2 of the General Contract Terms in the tender documents;

The applicable law for the commitment does not comply with Article 34 of the

General Contract Terms in the tender documents.

- (v) The bidder refuses to accept the bid evaluation committee's correction of calculation errors in their quotation;
- (w) The tender offer currency does not comply with the tender documents, or the adopted quotation method would prevent the bid evaluation committee from calculating the bid evaluation price according to established rules;
- (x) The bid evaluation price premium exceeds the maximum allowable ratio due to missing items in the quotation;
- (y) The bidder failed to obtain the tender documents for this project from the tenderer or tendering authority;
- (z) Other circumstances explicitly stipulated by relevant laws, regulations or rules that may result in the rejection of tender documents.

(2) Requirements for preparing technical bids

For major technical requirements marked with asterisks ("*") in the technical specifications, bidders must provide clear and specific responsive explanations (including potential positive/negative deviations) in their tender documents along with corresponding technical support materials. Bids lacking such documentation will be rejected. Valid technical support materials include certification certificates issued by authoritative institutions (e.g., 3C certification certificates), test reports from third-party testing agencies, or printed materials publicly released by the equipment manufacturers. In case of discrepancies between authoritative certifications or third-party test reports and manufacturer-published materials, the authoritative certifications or test reports shall prevail. For non-standard or non-universal equipment, bidders may submit technical specifications from completed similar projects and final performance test reports (signed by client representatives) as supporting documentation. These materials must exclusively verify claims of compliance where actual non-compliance exists, and cannot be used to validate contrary assertions.

If the bid evaluation committee identifies any of the following circumstances in the technical review process, the bid will be rejected:

- (a) The tender documents fail to meet the key technical requirements marked with an asterisk (*) in the technical specifications of the tender documents (if applicable), or the key technical requirements marked with an asterisk (*) lack supporting technical documentation that complies with the tender requirements;
- (b) Maximum number of general technical requirements in the technical specifications of the tender documents that exceed allowable deviations;
- (c) Response in the technical specifications of the tender documents that is inconsistent with factual circumstances or constitutes fraudulent bidding;
- (d) The bidder reproduces or directly copies relevant sections of the technical

	specifications from the tender documents as part of its bid submission; (c) Other circumstances specified in the technical specifications of the tender documents that may be deemed non-substantive responses.
26.5	Number of winning candidates: 1. The candidate with the lowest bid price will be ranked first as the winning bidder.
27	Comprehensive evaluation method: Not applicable
Grant Contract	
31.1	Method for Determining the Winning Bidder: The tenderer shall designate the top-ranked candidate as the winning bidder. If the top-ranked candidate withdraws from the bid, becomes unable to fulfill the contract due to force majeure, fails to submit the performance bond as required by the tender documents, or is found to have committed illegal acts affecting the bid outcome, thereby failing to meet the winning bid criteria, the tenderer may either sequentially select other candidates based on the ranking of the bid evaluation committee's proposed list or conduct a new tender process.
36	The successful bidders for each package of this project shall pay the service fee in full to the tendering agency within 5 working days after receiving the bid award notice. The service fee calculation standards for each package are as follows: 1. The total winning bid amount specified in the bid award notice for each package shall serve as the calculation base for fees; 2. The service fees for each awarded package shall be calculated on a progressive basis according to the following rate tiers: For amounts below RMB 1 million: 1.5%; for amounts between RMB 1 million and 5 million: 1.1%; for amounts between RMB 5 million and 10 million: 0.8%; for amounts between RMB 10 million and 50 million: 0.5%. 3. The amount calculated as above shall be charged at 92%.
Revision and Supplement of Chapter 4 "Bid Document Format"	
Format IV-5-1 Technical Specification Response/Deviation Table [Important clauses marked with an asterisk (*)]	Rewrite and attach
Format IV-5-2 Technical Specification Response/Deviation Table [Except for important clauses marked with an asterisk ("**")]	Rewrite and attach
Format IV-6-1 Business Terms Response/Deviation Table [Important clauses marked with an asterisk (*)]	Rewrite and attach
Format IV-6-2 Business Terms Response/Deviation Table [Except for key terms marked with an asterisk ("**")]	Rewrite and attach
Format IV-10 Supplier Written Statement	Added, attached below
Format IV-11 Bid Bond Payment and Refund Certificate	Added, attached below

Additional changes applicable to this bidder's notice:

- (1) Bidders shall thoroughly review all contents of the tender documents (including any accompanying drawings, images, or CDs). Should any missing pages, unclear printing, or uninterpreted content be discovered after receipt of the documents without prior notification to the tendering authority, resulting in non-compliance with tender requirements, the bidder shall bear full responsibility. Tender documents that materially fail to meet the specified requirements will be automatically rejected.
- (2) If fewer than three bidders submit documents or fewer than three bidders agree to extend the bid validity period as specified in Clause 16.2 of the Bid Document Instructions (where the tendering authority has selected and conducted two bid openings through the prescribed filing procedures prior to bid opening, both instances of "three bidders" in the above provisions shall be replaced with "two bidders"), the tenderer may, upon recommendation by the Evaluation Committee, proceed with a re-tendering process.
- (3) If the number of bidders submitting tender documents falls below three by the specified bid submission deadline; or if the actual number of potential bidders purchasing tender documents is less than three by the designated document sale deadline; or if the number of confirmed written-bid potential bidders remains below three prior to the bid submission deadline, the tenderer and tendering authority shall conduct a new tendering process in accordance with relevant regulations (the new bid deadline will be announced on the tendering authority's official website). However, tender documents already submitted before the original deadline shall not be recalled. Tendering authority staff shall affix seals to the external packaging of submitted documents, with all seals requiring signatures from representatives of bidders who submitted documents (absence of representatives at initial bid opening meetings shall be deemed as signed seals). The tender documents shall then be securely stored by the tendering authority to maintain their sealed integrity. Upon the new bid deadline, representatives of previously submitted bidders must first inspect and verify the integrity of all sealed documents before proceeding with subsequent bid opening procedures.
- (4) Any additional, auxiliary, or extra components, accessories, devices, equipment, or software in the bidder's supply list that exceed the requirements specified in the tender document's goods demand list and technical specifications shall not be deducted from the bid evaluation price, regardless of whether itemized pricing is indicated. This exclusion applies unless the bidder has explicitly declared such costs in the "Bidder Notes" section of both the "Bid Document" and "Bid Price Summary," and these costs have been deducted during the bid presentation and opening process.
- (5) Bidders must not list standard accessories or spare parts that may affect the core functionality or performance of the bid products as optional items. Failure to comply will result in disqualification, and the associated costs will still be included in the bidder's bid evaluation price during the assessment process.

- (6) If the bidder clearly states in the footnote of the "Domestic Supply Sub-item Quotation Table" the value-added tax (or value-added tax ratio) to be paid for the domestic products to be supplied, as well as the tariffs on imported components, parts, or materials, the relevant taxes and fees shall be deducted from the corresponding equipment quotation and the total bid price when calculating the deviation discount for technical and commercial discrepancies. Otherwise, the original quotation shall be used as the basis for calculating the deviation discount.
- (7) Any negative deviations between the commercial or technical sections of the tender documents and the requirements specified in the tender documents (i.e., failure to meet the tender requirements) must be documented in the "Commercial Terms Response/Deviation Table" and "Technical Specifications Response/Deviation Table" of the tender documents. Failure to do so will result in disqualification upon award of the contract. However, during bid evaluation, if such negative deviations are identified outside these tables, the bidder will receive an unfavorable assessment.
- (8) Paper response documents for different package types shall be prepared separately and submitted in individually sealed packages. Bidders must bind the technical and commercial sections of their tender documents separately. Tender documents must be bound using fixed adhesive sealing methods and must not employ loose-leaf binders. The total number of pages in the technical section of a single tender document shall not exceed 200. Performance certificates and other supporting materials are recommended to be scanned into electronic format and stored on CDs for submission. All printed pages of tender documents must be sequentially numbered.
- (9) If a bidder submits amendments to their tender documents or commitments after receiving the bid award notice, the tenderer may revoke the winning bid qualification and select the next eligible candidate in the evaluation committee's recommended order, or proceed with a new tender process. In such cases, the original winning bidder will be deemed unable to execute the contract within the stipulated timeframe, and their bid security deposit will not be refunded.

IV-5. Technical Specification Response/Deviation Table Format

Format IV-5-1 Technical Specification Response/Deviation Table [Important clauses marked with an asterisk (*)]

Bidder name: _____ Tender number: _____ Package ID: _____.

order number	description	Tender document entry number	Tender Specifications	Bid specifications	Response/Deviation	Technical Support Documentation
1.						See Tender Document Page X, Section X
2.						See Tender Document Page X, Section X

Bidder representative signature:

remarks :

1. Bidders shall provide detailed descriptions of the goods and services offered in accordance with the technical specifications outlined in the tender documents, substantively responding to the technical requirements while explicitly stating any deviations or exceptions from the specified clauses. For indicators with specific parameter requirements, bidders must furnish the exact parameter values of the equipment being submitted.
2. Bidders shall respond to each clause marked with "*" in the tender documents according to this table format, specifying its location in the "Bid Document" (page number, clause number), and highlight the corresponding clauses in bold color.
3. In case of any discrepancy between the 'Tender Specifications' herein and the provisions described in Chapter 8 'List of Goods Requirements and Technical Specifications', the latter shall prevail.
4. ***Important clauses marked with an asterisk (*) must be supported by technical documentation.**

Format IV-5-2 Technical Specification Response/Deviation Table [except for important clauses marked with an asterisk ("*")]

Bidder name: _____ Tender number: _____ Package ID: _____.

order number	description	Tender document entry number	Tender Specifications	Bid specifications	Response/Deviation	explain
1.						
2.						

Bidder representative signature:

remarks :

1. When preparing the tender documents, bidders shall supplement and add technical specifications not listed in the Response/Deviation Table (i.e., those with entry numbers marked as '...' in the tender documents).
2. Bidders shall provide detailed descriptions of the goods and services offered in accordance with the technical specifications outlined in the tender documents, substantively responding to the technical requirements while explicitly stating any deviations or exceptions from the specified clauses. For indicators with specific parameter requirements, bidders must furnish the exact parameter values of the equipment being submitted.
3. In case of any discrepancy between the 'Tender Specifications' herein and the provisions described in Chapter 8 'List of Goods Requirements and Technical Specifications', the latter shall prevail.

Format IV-6. Business Terms Response/Deviation Table Format

Format IV-6-1 Business Terms Response/Deviation Table [Important clauses marked with an asterisk (*)]

Bidder name: _____ Tender number: _____ Package ID: .

order number	Tender document entry number	Business Terms in Tender Documents	Commercial Terms of Tender Documents	Response/Deviation	Technical Support Documentation
1.					See Tender Document Page X, Section X
2.					See Tender Document Page X, Section X

Bidder representative signature:

remarks :

1. In case of any discrepancy between the 'Commercial Terms of Tender Documents' herein and the provisions in Chapter 8 'List of Goods Requirements and Technical Specifications', the latter shall prevail.
2. Bidders shall respond to each clause marked with "*" in the tender documents according to this table format, specifying its location in the "Bid Document" (page number, clause number), and highlight the corresponding clauses in bold color.

Format IV-6-2 Business Terms Response/Deviation Table [Except for key terms marked with an asterisk ("*")]

Bidder name: _____ Tender number: _____ Package ID:.. _____.

order number	Tender document entry number	Business Terms in Tender Documents	Commercial Terms of Tender Documents	Response/Deviation	explain
1.					
2.					
3.					
4.					
5.					

Bidder representative signature:

Note: In case of any discrepancy between the 'Commercial Terms of Tender Documents' herein and the provisions in Chapter 8 'List of Goods Requirements and Technical Specifications', the latter shall prevail.

Format IV-10 Supplier Written Statement

To: (Tenderer)

Our company hereby undertakes that during participation in this procurement project, we have complied with Article 18 of the Implementation Regulations of the Government Procurement Law of the People's Republic of China, which stipulates: "Suppliers with the same legal representative or those maintaining direct controlling or managerial relationships shall not participate in government procurement activities under the same contract. Except for single-source procurement projects, suppliers providing integrated services including overall design, standard formulation, project management, supervision, or testing shall not engage in other procurement activities related to the same project."

Our company has not violated Article 34 of the Implementation Regulations of the Tendering and Bidding Law of the People's Republic of China, which stipulates: "Legal persons, other organizations, or individuals with vested interests that may compromise the fairness of bidding shall not participate in tendering. Different entities with the same responsible person or those under controlling or managerial relationships shall not bid for the same tender section or the same tender project without sectional division."

Hereby Declare .

Bidder representative signature:

Date: Year Month Day

Format IV-11 Bid Bond Payment and Refund Receipt (Format) (For Bank Transfer)

Shanghai Zhongshi Construction Consulting Co., Ltd.:

We are (Project Name) (Tender Number: _____) We are (Project Name) (Tender Number: _____) Package ID: _____) Submit the bid bond in Renminbi (RMB) _____ Yuan (capitalized: Renminbi) _____ The amount of yuan was transferred from our account to yours via bank automatic deduction on [date].

For details, please refer to the attachment: a copy of the remittance slip or transfer receipt issued by the bank.

When refunding the deposit, please transfer the amount to our account as specified below. If the deposit fails to be refunded promptly or errors occur during the refund process due to incomplete information, incorrect details, or illegible handwriting, we will assume full responsibility and compensate for all losses.

Full organization name: _____.

Bank of account (branch required): _____.

Account number: _____.

Bidder representative signature:

Year Month Day

attach :

<p>(Copy of bank transfer or remittance voucher)</p>
--

pour :

1. Bidders shall pay the bid bond in accordance with the requirements specified in the tender documents. For domestic bidders, the bid bond must be transferred from their basic bank account via bank transfer or remittance, and copies of the payment vouchers shall be attached as required to facilitate the refund procedures for the bid bond upon project completion.
2. Within five working days after the issuance of the Notice of Award, the tendering agency shall refund the bid bond to unsuccessful bidders without interest. The successful bidder shall pay the full bid bond service fee to the tendering agency within five working days after signing the procurement contract, in accordance with the requirements specified in the "Bid Bond Service Fee" section of the appendix to this tender document. Upon payment, the tendering agency will issue a interest-free refund of the bid bond to the successful bidder.

Format IV-12 Integrity Bid Commitment Letter

In compliance with the "Tendering and Bidding Law of the People's Republic of China," the "Government Procurement Law of the People's Republic of China," and the "Measures for Challenges and Complaints in Government Procurement," we aim to foster a clean and ethical industry environment, purify the environmental monitoring market, combat unfair competition, promote social integrity, uphold industry standards, and adhere to professional ethics.

Our organization hereby makes the following commitments in participating in this procurement activity:

1. There are no circumstances prohibited from participating in procurement activities as stipulated in Article 18 of the Implementation Regulations of the Government Procurement Law of the People's Republic of China. Specifically, "different suppliers with the same unit responsible person or those having direct controlling or managerial relationships shall not participate in government procurement activities under the same contract. Except for single-source procurement projects, suppliers providing integrated services such as overall design, standard formulation, project management, supervision, or testing for procurement projects shall not participate in other procurement activities related to the same project."

2. No circumstances specified in Article 34 of the Implementation Regulations of the Tendering and Bidding Law of the People's Republic of China prohibit participation in bidding. Specifically, "Legal entities, other organizations, or individuals with vested interests that may compromise bidding fairness shall not participate. Entities with the same responsible person or those under controlling or managerial relationships shall not bid for the same tender section or the same tender project without sectional division."

3. Our organization has no personnel who have left or retired from the purchasing entity within the past three years serving as controlling shareholders, actual controllers, directors, or supervisors. We have not employed any individuals who have left or retired from the purchasing entity within the past three years, nor do we have any other conflicts of interest that may require recusal of relevant personnel from the purchasing entity.

IV. No improper dealings shall occur with project personnel from the procuring entity or tendering agency, including but not limited to hosting banquets, arranging travel or entertainment activities, making expenditures, or presenting gifts, cash, securities, prepaid cards, shopping vouchers, electronic pickup coupons, WeChat red envelopes, or other monetary benefits to such personnel.

5. There is no instance of obtaining critical project information that may compromise the

fairness of bidding activities from purchasers or relevant personnel of tendering agencies, including but not limited to the list of members of the bid evaluation committee and matters related to bid document review.

6. There is no evidence of bribery to purchasers or project-related personnel of tendering agencies, nor any other improper means to secure project bids.

7. No violations of laws, regulations, rules, or other relevant policies concerning clean bidding have been identified.

In the event of any of the aforementioned unlawful or regulatory violations inconsistent with the commitments, we hereby undertake to assume corresponding legal liabilities, including but not limited to disqualification from bidding or contract termination. We further commit to publicly disclosing the violations and their consequences through media channels designated by the Center within 30 days after the determination and resolution of such actions (with announcement content and format subject to prior review and approval by the Center).

Commitment Party (with official seal):

Legal Representative (Signature):

Commitment date:

Chapter 3 Contract Terms Information Sheet

This Chapter 'Special Contract Clauses' constitutes a specific supplement and amendment to Chapter II 'General Contract Clauses'. In case of any conflict, the Special Contract Clauses herein shall prevail.

regulation number	content
1	Buyer Name: Shanghai Environmental Monitoring Center Name of the buyer's tendering agent: Shanghai Zhongshi Construction Consulting Co., Ltd. Seller name: Project site: Designated location
7	Performance bond: /.
16	Accompanying services to be provided: 1) Implement or supervise on-site assembly and/or trial operation of supplied goods; 2) Provide tools required for product assembly and/or repair; 3) Provide detailed operation and maintenance manuals for each appropriate individual unit of the supplied goods; 4) To operate, supervise, maintain, or repair the supplied goods within a specified period mutually agreed upon, provided that such services shall not relieve the seller of its obligations under the contract warranty period; 5) Provide training to the buyer's personnel on the assembly, commissioning, operation, maintenance, and/or repair of the supplied goods at the seller's manufacturer and/or project site. 6) The seller shall conduct regular follow-up calls to remind the tenderer of equipment replacement schedules and provide recommendations for preventive maintenance and effective optimization measures.
17. 2	Required spare parts: Spare parts within the warranty period.
18.4	Duration for free repair and replacement of defective parts: (specific warranty period details are provided in Chapter 4). The product comes with a lifetime warranty. After the warranty period expires, professional repair services are still required.
20	Payment methods and terms are: Overseas supply: The buyer shall issue a non-revocable sight letter of credit (L/C) covering 90% of the contract amount. Payment for goods shipment

	<p>shall be made against the shipping bill at 90% of the contract value, with the remaining 10% payable via telegraphic transfer within 30 days after successful inspection.</p> <p>Domestic supply:</p> <p>1. Within 90 calendar days after contract signing, the tenderer shall make a one-time payment of 40% of the contract amount. The remaining 50% shall be paid upon delivery and completion of unpacking and acceptance procedures by Shanghai Environmental Monitoring Center, followed by a final 10% payment after successful installation, commissioning, and acceptance testing.</p> <p>2. This project is an advance procurement project, and the budget amount for the procurement project shall be subject to the actual fiscal approval. If the actual fiscal approval amount is lower than the transaction amount, the transaction amount shall be based on the actual fiscal approval (both parties shall sign a supplementary agreement). In case of any disputes, both parties shall resolve them through friendly negotiations.</p>
*32.2	<p>The venue and official language of arbitration: Arbitration shall be conducted in Shanghai by the Shanghai International Arbitration Center in accordance with its arbitration rules and procedures, with Chinese as the official language.</p>
35	<p>Buyer's notification address: Shanghai Environmental Monitoring Center, No.55 Sanjiang Road, Xuhui District, Shanghai</p> <p>Seller's notification address:</p>
36	<p>The title of the reciprocal agreement is "The People's Republic of China and Government Agreement on Income Tax and Property Tax to Avoid Double Taxation and Prevent Tax Evasion"</p>
38	<p>Additional modifications applicable to this contract</p>
38.1	<p>The documentation of two letter of credit formats (Format III-4-1 and Format III-4-2) attached as contract appendices in Chapter III of Volume I of the tender documents shall include an additional clause: "A declaration certifying that wooden packaging has undergone pest control treatment in compliance with the 'Measures for Quarantine Supervision and Administration of Wooden Packaging for Imported Goods' (Order No.84 of the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China) and bears the IPPC-specific identification mark, or a declaration stating that wooden packaging was not used."</p>

Chapter 4 List of Goods Requirements and Technical Specifications

project name	High-precision Carbon Dioxide, Methane, and Carbon Monoxide Atmospheric Environmental Monitoring Instrument (Songjiang Chedun Station)		
Budget amount (RMB)	1500000	Whether the budget funds span years	deny
Budget number	0026-00022284	funds provided	annual financial budget
Purchase type	goods	Whether direct single-source procurement is implemented	deny
Allow joint bidding	deny	Allow subcontracting	deny
Should small and medium-sized enterprises be reserved?	yes		
Whether to purchase imported goods	yes		
Whether to collect a performance bond	deny		
Project timeline	From the date of contract signing until November 30,2026, with delivery to be completed by July 31,2026.		
mode of payment	<p>1. Within 90 calendar days after contract signing, the tenderer shall make a one-time payment of 40% of the contract amount. The remaining 50% shall be paid upon delivery and completion of unpacking and acceptance procedures by Shanghai Environmental Monitoring Center, followed by a final 10% payment after successful installation, commissioning, and acceptance testing.</p> <p>2. This project is an advance procurement project, and the budget amount for the procurement project shall be subject to the actual fiscal approval. If the actual fiscal approval amount is lower than the transaction amount, the transaction amount shall be based on the actual fiscal approval (both parties shall sign a supplementary agreement). In case of any disputes, both parties shall resolve them through friendly negotiations.</p>		

Methods and Standards for Project Acceptance	<p>Acceptance criteria: Provide acceptance reports and other relevant materials.</p> <p>Acceptance method: Expert panel review.</p> <p>Acceptance entity: Shanghai Environmental Monitoring Center</p> <p>Acceptance time: After installation, debugging, and trial operation are completed</p> <p>Acceptance procedure: The tendering party organizes an expert meeting, where the winning bidder submits a technical report to conduct a review of the degree of compliance with specified indicators. Upon successful review, an expert opinion document is issued.</p> <p>Acceptance content: Consistency between the acceptance report, trial operation status, and bidding technical requirements</p>
liability for breach contract	<p>1. Both the tendering party and the winning bidder shall strictly fulfill the contract. If the contract cannot be performed or other consequences arise due to the negligence of either party, the negligent party shall bear corresponding liabilities. Should the winning bidder commit serious breaches during project execution, the tendering party reserves the right to terminate the contract, with all resulting economic losses borne by the winning bidder. In cases of mutual negligence, liabilities shall be apportioned according to the degree of each party's fault.</p> <p>2. In the event that the contract cannot be performed due to force majeure, neither the tendering party nor the winning bidder shall be liable. If any party incurs losses as a result, such losses shall be borne by the losing party.</p> <p>3. Any disputes arising between the tenderer and the successful bidder during the execution of the contract shall first be resolved through friendly negotiations. If negotiations fail, either party has the right to bring the matter before the People's Court.</p>
project context	<p>Purchase one high-precision carbon dioxide, methane, and carbon monoxide atmospheric environmental monitoring instrument to enhance the Shanghai Greenhouse Gas Monitoring Network and improve the city's greenhouse gas monitoring capabilities. This initiative will provide technological support for achieving Shanghai's strategic goals of carbon neutrality and carbon peak, while supplying fundamental data for addressing climate change and realizing carbon neutrality targets.</p>
Project Main Content and Technical Requirements	<p>See Annex 1.</p> <p>The following documents are required: operation and maintenance service plan, production organization, after-sales service plan, relevant performance capabilities, and performance records from the past three years.</p>

Note: (1) For projects permitting subcontracting, the subcontract amount shall not exceed 10% of the budgeted amount;

(2) Detailed project content and technical requirements may be attached as supplementary pages.

Attachment 1: Detailed project content and technical requirements

name	quantity	Budget amount (RMB)
High-precision Carbon Dioxide, Methane, and Carbon Monoxide Atmospheric Environmental Monitoring Instrument (Songjiang Chedun Station)	1	1500000

High-precision Carbon Dioxide, Methane, and Carbon Monoxide Atmospheric Environmental Monitoring Instrument (Songjiang Chedun Station)

1. Technical Requirements

***1.1 The system employs cavity-radiated dissipation spectroscopy (CRDS) technology**

1.2 Mirror reflectivity: $\geq 99.999\%$

1.3 Stable temperature control: Accuracy of $\leq 0.005\text{ }^{\circ}\text{C}$; The temperature control objectives encompass three components — the measured gas, measurement chamber, and host unit — to ensure the most accurate measurement results under continuously changing external temperature conditions.

1.4 Stable air pressure control: Accuracy ≤ 0.0002 standard atmospheric pressure; ensures the most accurate measurement results under continuously changing external pressure conditions.

1.5 Detection chamber: Ensure constant temperature and pressure control within the optical cavity to guarantee measurement accuracy.

1.6 Data Output: Measured values of CO₂/CH₄/CO at given water vapor concentrations, along with their corresponding dry values of CO₂/CH₄/CO under the same conditions.

2. Performance indicators:

***2.1 CO₂: Ensure precision <10 ppb (60 minutes); maximum drift <100 ppb (24 hours); 7-day drift <100 ppb;**

***2.2 CH₄: Ensure accuracy <0.3 ppb (60 minutes); maximum drift <1 ppb (24 hours); 7-day drift <1 ppb;**

***2.3 CO: Ensure precision <1ppb (60 minutes); maximum drift <2ppb (24 hours); 7-day drift <2ppb;**

2.4 H₂O: Ensure precision of 5 ppm (5 minutes);

2.5 Measurement interval: <5s;

2.6 Measurement range: CO₂: 0-1000 ppm, CH₄: 0-10 ppm, CO: 0-5 ppm, H₂O:0-7% (under non-condensing conditions);

2.7 Accuracy: The standard gas concentration range must cover common working concentrations. The nominal concentration values of the standard gas and the instrument concentration response

values were linearly fitted using the least squares method. The correlation coefficients for the CO₂/CH₄ calibration curve ($r > 0.99999$) and CO calibration curve ($r > 0.99999$) were obtained. Using the fitting equations from the calibration curves, the corrected concentration values of the site's working gas were calculated. The deviations between the corrected CO₂ and CH₄ concentrations and their nominal values should not exceed ± 0.1 ppm/2 ppb.

2.8 CO₂ and CH₄ measurement technologies must comply with the national standards "Atmospheric Methane Optical Cavity Decay Spectroscopy Observation System" (GB/T 33672-2017) or "Atmospheric Carbon Dioxide (CO₂) Optical Cavity Decay Spectroscopy Observation System" (GB/T 34415-2017). If new national or industry standards or technical specifications are issued, the corresponding technical indicators must meet the latest requirements.

2.9 Equipment of the same model shall be certified by China Environmental Monitoring Center or international authoritative institutions (such as ICOS, WMO) and issued with formal test reports.

3. System operating parameters

3.1 Sample gas temperature: -10 to 45°C;

3.2 Sampling humidity: <99% relative humidity under non-condensation conditions;

3.3 Power supply: 100–240 volts, 60 Hz alternating current;

3.4 Data output: RS-232, Ethernet, USB;

4 Front-end processing and supporting systems:

4.1 Sampling Valve Box: The sampling pump, flow meter, mass flow control system, and multi-port valves (with no fewer than eight ports) are independently controlled via switches for easy maintenance and fault diagnosis. Equipped with pressure and flow control devices to maintain constant system pressure and flow rate, ensuring consistent pressure of sample air and working standard gas before entering the analyzer. Features include a cooling system and power protection system. Key parameters in the pretreatment system (e.g., pressure, flow rate) can be monitored and uploaded to the industrial control computer. Sample injection flow rate: adjustable from 0 to 500 mL/min. Flow meter accuracy: $\pm 1\%$ F.S.

4.2 Standard Gas: Three bottles of CO₂/CH₄/CO mixed standard gas, with concentrations traceable to international first-grade standard gases maintained by the WMO CCL or to those with equivalent mutual recognition agreements with the WMO.

4.3 Steel cylinders: Approximately 30L aluminum alloy cylinders are used.

4.4 Pressure Relief Valve: Utilizes high-precision two-stage stainless steel pressure relief valves with real-time standard gas pressure acquisition capability.

4.5 Intake Pipeline: Dual pipeline system (one in use and one as backup), with pipeline length configured according to actual requirements. The pipe diameter is 10 mm, featuring an inner layer of Teflon material to prevent chemical penetration, a middle layer of aluminum for structural strength, and an outer layer of corrosion-resistant rubber. The sampling system employs multi-stage filtration to prevent contamination by insects, particulate matter, and other contaminants.

4.6 Fully Automated Ultra-low Temperature Cold Trap

4.6.1 Utilization of ultra-low temperature refrigeration methods and refrigeration components ensures stable refrigeration efficiency

4.6.2 Dehumidification efficiency: Absolute humidity <0.005%; Refrigeration operating temperature: -50°C to -70°C

4.6.3 Comparability: A standard gas of specified concentration is introduced into the front end of the water removal equipment. The corrected concentration value obtained from the calibration equation is compared with the nominal concentration value of the standard gas. The deviation between the audited standard gas correction values for CO₂/CH₄/CO and the nominal values shall not exceed ±0.2 ppm/5 ppb/5 ppb.

4.7 External Standard Pump

4.7.1 Use oil-free diaphragm pumps

4.7.2 Use a flow rate greater than 6 L/min, and calculate the gas pipeline retention time as less than 20s based on a pipe length of 50 m.

4.8 Six Meteorological Parameters

4.8.1 Wind direction sensor

(1) Orientation: 0~360°;

(2) Resolution: ±3°;

(3) Maximum allowable error: ±5°;

4.8.2 Wind speed sensor

(1) Measurement range: 0-60 m/s;

(2) Resolution: 0.1 m/s;

(3) Maximum allowable error: ±(0.5+0.03V)m/s;

4.8.3 Temperature Sensor

(1) Measurement range: -50 to +50°C;

(2) Resolution: 0.1°C;

(3) Maximum allowable error: ±0.2°C;

4.8.4 Humidity Sensor

(1) Measurement range: 5-100% relative humidity;

(2) Resolution: 1%;

(3) Maximum allowable error: ±3% (≤80%) ±5% (>80%);

4.8.5 Barometer Sensor

(1) Measurement range: 450 hPa to 1100 hPa;

(2) Resolution: 0.1 hPa;

(3) Maximum allowable error: ± 0.3 hPa;

4.8.6 Precipitation

(1) Precipitation: Cumulative rainfall;

(2) Resolution: 0.1 mm;

(3) Maximum allowable error: ± 0.4 mm (≤ 10 mm) $\pm 4\%$ (>10 mm);

4.9 VPN Requirements

Meet the VPN reference configuration requirements specified in the "Implementation Plan for Pilot Monitoring Data Networking of Urban Atmospheric Greenhouse Gases" issued by the China Environmental Monitoring Center (Document No. [2022]250).

4.10 Industrial Control Computer

(1) CPU: Intel I7-12700 or higher models;

(2) Memory: At least 16GB DDR5 memory;

(3) Hard drive: At least a 1TB solid-state drive;

(4) Supports auto-start upon call;

(5) Display: Supports multi-resolution display with screen size exceeding 17 inches;

(6) USB ports: At least 4 USB 2.0 or higher data interfaces;

(7) I/O interface: Supports future expansion;

(8) Operating system: Pre-installed genuine Windows 10 or later Chinese version.

4.11 Data Acquisition Software

(1) Data Collection Scope: The system collects high-precision greenhouse gas concentration data (CO₂/CO/CH₄) and equipment parameters (including but not limited to monitoring alarm system metrics such as standard gas pressure, intake pressure, depressurization flow rate, and bypass flow rate), with automatic threshold detection and alerts. It also collects meteorological parameters including atmospheric pressure, wind direction, wind speed, temperature, humidity, and precipitation.

(2) Quality Control Process and Scheduling: Quality control tasks can be scheduled and formulated through the quality control management interface; it supports on-site quality control, manual quality control, pre-labeled quality control, periodic/timed quality control, and networked remote quality control tasks.

The quality control task editor provides visual editing for quality control process actions and parameters. It enables step-by-step orchestration of quality control tasks, allows one-click addition of all quality control tasks, and supports customization of input parameters and output results for quality control tasks.

(3) Automatic calibration and gas path switching: The system supports precise switching of sample gas and different quality control gases by actively transmitting control commands. Quality control identifiers are automatically added to monitoring data before and after valve switching, with real-time calculation and updating of slopes and intercepts for various monitoring parameters.

(4) Network transmission: Features "one-point multi-send" functionality: allows setting multiple target server addresses for parallel transmission; supports "resume from breakpoint" functionality;

(5) Possesses digital twin display functionality for the entire monitoring system;

4.12 High-precision greenhouse gas monitoring systems shall be equipped with auxiliary sampling devices such as sampling pipelines, injection systems, and water removal systems that comply with pilot technical guidelines including the "Technical Requirements for Continuous Automatic Monitoring Sampling Systems of Greenhouse Gases and Their Tracers (CO₂, CH₄, N₂O, and CO) in Ambient Air (First Edition)" (General Station Document No.475 [2022]), ensuring stable operation of monitoring instruments.

5 Warranty and Maintenance:

The goods shall arrive by July 31,2026, and trial operation shall commence after installation and commissioning are completed. The trial operation period shall not be less than 30 days, with a data validity rate of no less than 95% during the trial operation.

The equipment provides a two-year free warranty and one year of free operation and maintenance after acceptance (including consumables and spare parts). Specific requirements shall refer to the "Technical Guidelines for Operation and Quality Control of Continuous Automatic Monitoring Systems for Ambient Air Greenhouse Gases and Their Tracers (CO₂, CH₄, N₂O, and CO) Using Optical Cavity Dissipation Spectroscopy Method (First Edition)" issued by the China Environmental Monitoring Center. During the warranty period, if the equipment requires replacement or repair of key components or multiple general components more than once, the warranty period shall be recalculated from the date when the replacement or repair is completed and the equipment resumes normal operation and use.

6 Training Requirements

Provide instrument operation and software training to multiple personnel at least twice.

Bid Document Index Table

Project Name: High-precision Carbon Dioxide, Methane, and Carbon Monoxide Atmospheric Environmental Monitoring Instrument (Songjiang Chedun Station)

Tender number: 1069-254Z20265581

document type	order number	Document Name	Submission status		Page range	remarks
			have	not have		
Quotation Document	1.	Bid Opening Summary Table (format as specified in Format IV-2 of Volume I of the Tender Document)				
	2.	Sub-item bid quotation table (for bids involving domestic supply) (format as specified in Format IV-3-1 of Volume I of the tender documents)				
	3.	Sub-item bid quotation table (for overseas supply bids) (format: see Format IV-3-2 in Volume I of the tender documents)				
Business documents	4.	Bid document (format: see Volume II of the tender documents, Format IV-1)				
	5.	Copies of supplier qualification certification documents (such as business license, legal person registration certificate, or enterprise registration certificate)				
	6.	Bidders must possess project experience with the equipment specified in their tender package and be able to provide delivery certification materials for actual cases delivered within the past three years (from 2021 to present), including copies of contracts dated at the time of signing.				
	7.	Authorization Letter for Unit Head (Format: Refer to Format IV-8 in Chapter 4 of Volume 1 of the Tender Document)				
	8.	Qualification Statement (format: Refer to Format IV-9-1 in Chapter 4 of Volume 1 of the Tender Document)				
	9.	Manufacturer Qualification Statement (Format: Refer to Format IV-9-2 in Chapter 4 of Volume 1 of the Tender Document)				
	10.	The qualifications of the trading company (acting as agent) are specified in Format IV-9-3, Chapter 4 of Volume I of the tender documents.				
	11.	A unique authorization letter issued by the manufacturer or general agent (format: Format IV-9-4, Chapter 4, Volume 1 of the tender documents)				
	12.	Certificate (including the original credit certificate issued by the bidder's bank within three months prior to the bid opening date, or a copy thereof) (format as specified in Format IV-9-5, Chapter IV, Volume I of the tender documents)				
	13.	A screenshot of a website that was not listed as a dishonest judgment debtor or a major tax violation subject by the Ministry of Finance's designated "Credit China" website (www.creditchina.gov.cn) within three years prior to the bid deadline.				

	14.	A screenshot of the website that was not listed in the Serious Illegal and Dishonest Behavior Record List for Government Procurement on the China Government Procurement Network (www.ccgp.gov.cn) within three years prior to the bid submission deadline.				
	15.	Format for Business Clause Response/Deviation Table [Key clauses marked with asterisks (*)] (Refer to Format IV-6-1 in Volume II of the tender documents)				
	16.	Format for Business Clause Response/Deviation Table (excluding key clauses marked with asterisks '*') (refer to Format IV-6-2 in Volume II of the Tender Document)				
	17.	Bank guarantee for bid security (format: see Format IV-7 in Chapter 4 of Volume 1 of the tender documents) or a copy of the bid security submission certificate				
	18.	Supplier written statement (Form IV-10)				
	19.	Bid bond payment and refund certificate (format: see Format IV-11 in Volume II of the tender documents)				
technical document	20.	Goods Description List (with technical support materials attached) (format as specified in Format IV-4, Chapter 4, Volume 1 of the tender documents)				
	21.	Technical Specification Response/Deviation Table [Important clauses marked with asterisks (*)] Format (refer to Format IV-5-1 in Volume II of the tender documents)				
	22.	Technical Specification Response/Deviation Table [Excluding key clauses marked with an asterisk ("*")] Format (Refer to Format IV-5-2 in Volume II of the Tender Document)				

This table should be placed on the first page of the tender documents