

**Bidding for Key Technology Study for Magnetic Isolation and Reduction in Airside PV Systems
under Taiyuan Wusu Zero-carbon Airport Project financed by NDB Loan
(Bid No.: 0773-2540GNOEFWKG0432)**

Project Location: Taiyuan, Shanxi Province

I. Conditions for Bidding

This project is the Key Technology Study for Magnetic Isolation and Reduction in Airside PV Systems under Taiyuan Wusu Zero-carbon Airport Project financed by NDB Loan (Project No.: M1401000155900185006, NDB Contract No.: TY-S-004). The project funding comprises New Development Bank loan and self-raised funds from the enterprise, and the Client is Shanxi Aviation Industry New Energy Co., Ltd. The Project is now ready for bidding and is hereby open for public bidding.

II. Project Overview and Scope of Bidding

Project overview: Located within the Taiyuan Wusu International Airport, the Project is aimed and tasked to achieve zero-carbon operation for building structures, equipment and facilities owned by Shanxi Aviation Industry Group Co., Ltd. within the territory of Taiyuan Wusu Airport. Construction Content: The Taiyuan Wusu Zero-carbon Airport Project consists of 6 subprojects, namely: ① Zero-carbon cooling and heating engineering; ② Zero-carbon power engineering; ③ PSDF (charging) building demonstration and upgrade engineering in the terminal area; ④ Near-zero carbon building pilot engineering; ⑤ Solar-powered low-carbon street lamp; ⑥ Flexible resource data management platform for virtual power plant and photovoltaic-storage applications.

Content of bidding: This bidding is the Key Technology Study for Magnetic Isolation and Reduction in Airside PV Systems under Taiyuan Wusu Zero-carbon Airport Project financed by NDB Loan

Scope of bidding: In accordance with the requirements and key indicators outlined in the *"14th Five-Year" Civil Aviation Development Plan* and the *"14th Five-Year" Special Plan for Green Development of Civil Aviation* jointly issued by the Civil Aviation Administration of China (CAAC), the National Development and Reform Commission (NDRC), and the Ministry of Transport of the People's Republic of China, Shanxi Province will, relying on the Taiyuan Wusu International Airport Phase III Reconstruction and Expansion Project, install photovoltaic power generation systems within the open and flat spaces of the airfield area to secure substantial renewable energy resources and meet the majority of the airport's energy demands, thereby establishing a zero-carbon renewal demonstration project.

Under the premise of ensuring safe airport operations, and to fully utilize the PV power generation facilities for the airport's green and sustainable development while guaranteeing long-term stability and efficient operation of the photovoltaic system, this study will analyze the electromagnetic compatibility (EMC) between the PV power generation facilities and the radio-communication equipment (including airport and aircraft communication, navigation, and surveillance systems). Specialized research will

simultaneously be conducted to reduce the overall electromagnetic radiation levels of the photovoltaic power generation system within the flight area to sustained compliance with regulatory limits, culminating in an integrated EMC solution. This approach will reduce the cost and operational management complexity of the PV power generation system, thereby supporting the large-scale application of PV power generation systems in the airside areas of civil aviation airports. For detailed information, please refer to Section 5: "Requirements for Work Content."

III. Bidders' Eligibilities

The following eligibility requirements of bidding apply to bidders from all member countries of the NDB. For China specific eligibilities, the bidders from NDB other member countries shall be equipped with equivalent ones.

1. Qualification requirements: The registration place of the bidder shall be from the member countries of NDB, and the bidder shall have a valid business license or provide relevant certificates and qualifications equivalent to the business license;
2. Credit requirements: The bidder shall not be included in the list of untrustworthy enterprises with serious violations or abnormal business operations of the "National Enterprise Credit Information Publicity System", nor be included in the list of judgment defaulters on the "Credit China" website;
3. Qualifications requirements for the project leader: The project leader shall hold a master's degree or higher, with a senior engineer title or associate professor or associate researcher title or above in the related fields of Electrical Specialty, Electric Power, Automation, Automatic Control, or Communication;
4. Performance requirements: In the past eight years (from January 1, 2017 to bid submission deadline), the bidder shall have at least one technical consulting project related to airport electromagnetic environment testing or assessment, or at least one project related to integrated communication and navigation equipment for airport flight area (the project deliverables must include a finalized prototype or finished equipment and the scope must cover detailed design work.)
5. Other requirements:
 - (1) Different units with the same person in charge or different units with controlling or management relationship shall not bid for this project at the same time, otherwise the relevant bids are invalid;
 - (2) The bidder shall have not been restricted from bidding by the governments of the member countries of NDB. (The bidder shall provide a letter of commitment that has not been restricted from bidding by the governments of the member countries of NDB in the format required by the bidding documents.)
6. Bids from joint venture will be accepted; If the bidding is in the form of a joint venture, the following requirements shall be met:

- (1) The bids submitted by a bidder and the contract agreement signed after being awarded the contract shall be legally binding on all members of the Joint Venture;
- (2) The members of the Joint Venture shall sign a Joint Venture Agreement to stipulate their respective work and responsibilities and submit this Joint Venture Agreement along with the bids to the Client;
- (3) Each member of the Joint Venture shall not submit a separate bid in its own name, nor participate in two or more Joint Venture bids simultaneously. In either case, the bids submitted in its own name and the bids of the Joint Venture to which it belongs will both be rejected;
- (4) If the Joint Venture wins the bid, the members of the Joint Venture shall jointly sign the contract with the Client and bear joint and several liabilities to the Client for contract performance;
- (5) The members of the Joint Venture shall jointly nominate a Joint Venture leader and submit a power of attorney to prove such Joint Venture leader's authority. This power of attorney shall be submitted to the Client as part of the bids.

IV. Acquisition of Bidding Documents

Acquisition Time: From 14:00 on August 8, 2025 to 17:00 on August 15, 2025

Acquisition Method: Online through the Yangguang Procurement Platform of Shanxi Aviation Industry Group (<http://aviagroup.jcebid.com>). Bidding documents are priced at CNY 500, non-refundable after sale.

Bank Account Information:

Name: China Capital Tendering Co., Ltd.

Deposit bank: China Merchants Bank, Beijing Haidian Science and Technology Finance Sub-branch

Account: 8670 8011 2810 001

V. Submission of bids

Deadline for Submission: 14:00 on September 1, 2025

Submission Method: Online Submission

Place for Submission: Yangguang Procurement Platform of Shanxi Aviation Industry Group (<http://aviagroup.jcebid.com>)

VI. Time and Venue for Bid Opening

Bid Opening Time: 14:00 on September 1, 2025

Bid Opening Method: Online bid opening through the Yangguang Procurement Platform of Shanxi Aviation Industry Group (<http://aviagroup.jcebid.com>)

VII. Other Public Announcements

The Notice will be released simultaneously on NDB website (<https://www.ndb.int>), China Tendering And Bidding Public Service Platform (<http://cebpubservice.cn>), Shanxi Provincial Tendering and Bidding

Association/Shanxi Tendering and Procurement Service Platform (<https://sxtba.com>), Yangguang Procurement Platform of Shanxi Aviation Industry Group (<http://aviagroup.jcebid.com>) and website of Shanxi Aviation Industry Group Co., Ltd. (<http://www.sxairport.org.cn/>)

Note: 1. All interested bidders shall register at the column of “Trading Market Entity Database” of <http://prec.sxzwfw.gov.cn> (National Public Resource Trading Platform (Shanxi)), and the registration guide is available at: <http://jyzt.sxzwfw.gov.cn/ztxxzc/index.jhtml>.

2. If you need to apply for a CA digital certificate, please check the column of “digital certificate cross mutual recognition” (<http://prec.sxzwfw.gov.cn/cajchrpt/>) of National Public Resource Trading Platform (Shanxi) (<http://prec.sxzwfw.gov.cn/>). Customer service hotline for Yangguang Procurement Platform of Shanxi Aviation Industry Group: 400-0351-097 (working hours: 9:00-12:00, 13:30-17:30).

VIII. Supervision Department

The supervisory department of this bidding project is: Shanxi Aviation Industry New Energy Co., Ltd. Comprehensive Office

IX. Contact Information

Client: Shanxi Aviation Industry New Energy Co., Ltd.

Address: No. 199, Taiyu Road, Xiaodian Street, Xiaodian District, Taiyuan City, Shanxi Province, China

Persons of Contact: Jianping Liu

Tel No.: 0351-7286345

Procurement Agency: China Capital Tendering Co., Ltd.

Address: Floor 15, Jiuling Plaza, No.21 Xisanhuan Bei Road, Haidian District, Beijing City, China

Persons of Contact: Ping He

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