

**Bidding for the Aircraft Wake Impact Resilience Study for PV Arrays under Taiyuan
Wusu Zero-carbon Airport Project financed by NDB Loan
(Bid No.: 0773-2440GNOEFWGK4992)**

Project Location: Taiyuan, Shanxi Province

I. Conditions for Bidding

The Aircraft Wake Impact Resilience Study for PV Arrays under Taiyuan Wusu Zero-carbon Airport Project financed by NDB Loan (Project No.: M1401000155900185002, NDB Contract No.: TY-S-005), the project is financed by New Development Bank loan and the Purchaser 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 and Scale: The Taiyuan Wusu Zero-carbon Airport Project consists of 6 subprojects and 13 specific works, namely: ① Zero-carbon power engineering: building rooftop PV, terrestrial PV, airfield PV, and ground parking lot PV; ② Zero-carbon cooling and heating engineering: North Zone 1# Zero-carbon Integrated Energy Station, North Zone 2# Zero-carbon Integrated Energy Station, South Zone Zero-carbon Integrated Energy Station, cooling and heating pipe network and geothermal wells (boreholes); ③ PSDF (charging) building demonstration engineering: terminal building works, parking building works and other works; ④ Near-zero carbon building pilot engineering: mail interchange hub; ⑤ Low-carbon street lamp : construction of low-carbon street lamps; ⑥ Intelligent operation management and control system subproject.

Content and Scope of Bidding: the present bidding is for:

Aircraft Wake Impact Resilience Study for PV Arrays for Taiyuan Wusu Zero-carbon Airport Project financed by NDB Loan

Tasks: According to the requirements and main indicators of the "14th Five-Year Plan for Development of Civil Aviation " and the "14th Five-Year 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 (MOT), Shanxi Province will rely on the Taiyuan Wusu International Airport Phase III Reconstruction and Expansion Project, make full use of the open and flat space in the flight area to lay photovoltaic, so as to obtain a large amount of renewable energy, solve most of the airport's energy needs, and create a demonstration project of zero-carbon renewal. Under the premise of meeting the safe operation of the airport, making full use of solar photovoltaic facilities to meet the green and sustainable development of the airport, and ensuring the long-term stable and efficient operation of the photovoltaic system, a special study shall be carried out on the scope and extent of the influence of the velocity field and temperature field of the aircraft engine wake on the photovoltaic panel area in order to plan for the structural fixation of the solar photovoltaic panels, and to

further determine the safety of the photovoltaic project applied at the airport, as detailed in Section V Technical Specifications Requirements".

III. Bidders' Qualifications

1. Qualification requirements: with a valid business license, and in terms of personnel, equipment, funds and other aspects of the corresponding service capacity;
2. Financial requirements: financial audit reports for the past three years (2021-2023);
3. Credit requirements: no record of bad behavior;
4. Qualification requirements of the project leader: with the title of senior engineer;
5. Team requirements: equipped with a professional project team to meet the project work needs. It is required that the number of personnel, professional structure composition have a high degree of matching with the project.
6. Other requirements:
 - (1) The person in charge of the unit is the same person or there is a controlling or management relationship of different units shall not bid for this project at the same time, otherwise the relevant bids are invalid;
 - (2) not included in in the list of untrustworthy enterprises with serious violations or abnormal business operations of the "National Enterprise Credit Information Publicity System" and not included in the list of judgment defaulters on the "Credit China" website.
 - (3) The bidder shall be from the member countries of NDB;
 - (4) The consultant 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 a format drawn up by oneself);
7. This tender accept joint venture.

IV. Acquisition of Bidding Documents

Acquisition Time: From 17:00 on September 3, 2024 to 17:00 on September 10, 2024

Obtaining 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 24, 2024

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 24, 2024

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

VII. Public Website of Invitation for Bid

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 consultants 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: Hongbin Zhao

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

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