

ANNOUNCEMENT OF EXPRESSION OF INTEREST (Stage 1 of EPC Tender)

HIGH-CAPACITY PUBLIC TRANSPORTATION PROJECT

"METRO" IN ULAANBAATAR, MONGOLIA

Request for Expression of Interest /REOI/# XXXXX

Date: October ... 2024

1. Introduction

The Procurement Agency of Capital City of Ulaanbaatar, Mongolia (hereafter referred to as "the Client") invites eligible and experienced entities and consortia to submit an Expressions of Interest for prequalification to bid on the **Engineering, Procurement, and Construction** contract for the High-Capacity Public Transportation Project "Metro" in Ulaanbaatar. This transformative project aims to develop a modern and efficient metro system in the high densified city, significantly enhancing public transportation and contributing to the city's sustainable development.

2. EOI Purpose

This EOI marks a critical step in implementing the Ulaanbaatar Metro project. It aims to:

- **Identify and Attract Qualified Bidders:** Actively seek out and invite leading international and domestic entities and consortia with proven expertise in designing, constructing, and implementing large-scale metro rail projects.
- **Promote Transparency and Fair Competition:** Provide a level playing field for all interested parties by disseminating clear, comprehensive, and readily accessible information about the Ulaanbaatar Metro project, including its scope, technical requirements, evaluation criteria, and submission guidelines.

By conducting a robust and transparent EOI process, the Client aims to identify and engage potential partners who possess the capabilities, experience, and commitment to deliver a high-quality, safe, and efficient metro system for the citizens of Ulaanbaatar.

3. Important Considerations for Bidders

This Request for Expression of Interest (Law of Mongolia on Procurement of Goods, Works and Services with State and Local Funds) represents a crucial stage in the development of the Ulaanbaatar Metro Project. Please carefully review the following important considerations:

Feasibility Assessment and Design Update:

Feasibility Study Updating:

Building upon the existing feasibility study conducted by JICA in 2013, Dohwa Engineering Consultant, engaged by the Municipality of Ulaanbaatar in July 2024, is currently undertaking a comprehensive review and update. This updated feasibility study will incorporate current conditions and data to provide a robust foundation for the project moving forward. The updated study will directly inform the development of detailed engineering designs for the Ulaanbaatar Metro.

This update, which includes various ongoing field surveys, will provide a comprehensive assessment of the project's viability in the current context and may lead to adjustments in the project scope, timeline, and estimated budget.

- **On going studies:** Bidders are advised to consider the ongoing nature of this study and its potential impact on project parameters. For a more detailed understanding, please refer to the "Review of Previous Studies" file available on the public procurement portal. [link](#)
- **Legal Framework:** This EOI is conducted in accordance with the "Law of Mongolia on Procurement of Goods, Works and Services with State and Local Funds" and other regulations set forth by the Mongolian Ministry of Finance and Municipal Office of Ulaanbaatar regarding the state budget.
- **Project Outcomes:** While subject to refinement based on the updated feasibility study, the Ulaanbaatar Metro project is anticipated to deliver the following key outcomes:
 - **Launch of Ulaanbaatar's first metro line**, significantly diversifying and enhancing the city's public transport system.
 - **Construction of multiple stations adhering to Transit-Oriented Development principles**, promoting integrated urban development and maximizing the positive social and economic impacts of the metro system.
 - **Establishment of new knowledge, work procedures, norms, and standards for efficient metro operation and maintenance**, ensuring a solid foundation for the long-term functionality and sustainability of the system.
- **Information Access:** All relevant documentation, including technical specifications, terms of reference, and further clarifications, can be obtained through the designated public procurement portal. <https://user.tender.gov.mn/mn/invitation/detail/1726456870665>

Please note: The timeline for this crucial feasibility assessment and design update by Dohwa Engineering Consultant is attached for reference. Bidders should carefully consider this timeline in their EOI submissions.

The Client encourages all interested and qualified entities and consortia to actively participate in this EOI process and contribute to the successful implementation of the Ulaanbaatar Metro project.

4. Project Scope for EPC Bidders¹

This section is detailing the scope of work expected from EPC bidders for the Ulaanbaatar Metro project. The successful bidder will be responsible for the design, procurement, construction, and commissioning of the following components:

(a) Civil, Architectural, Electrical & Mechanical Works:

This scope encompasses the detailed design and execution of:

- **Tunneling Works:** Approximately 6 kilometers of tunnel with a diameter of 6.7-7.2 meters, utilizing the Shield TBM method. (JICA, 2013)
- **Line Facilities:** Including track systems, signaling equipment, communication systems, power supply systems, catenary systems, railway safety equipment, hazardous material handling facilities, lighting systems, drainage systems, and emergency systems.

¹ Please note that the general requirements outlined in this document are not exhaustive and may be subject to change. The project's technical and economic feasibility is currently under review and revision, which may result in adjustments to the final requirements.

- **Station Facilities:** Comprising platforms, concourses, entrances and exits, ticketing and passenger control areas, vertical circulation systems (escalators and elevators), utilities and services, fire safety systems, and security & surveillance systems.
- **Electromechanical Equipment:** This includes the design, supply, and installation of essential systems such as air conditioning and ventilation, elevators and escalators, firefighting systems, and dewatering systems.
- **Depot Facilities:** Encompassing automatic inspection facilities, carbody washing facilities, stabling track groups, inspection workshops, wheel lathe facilities, overhaul maintenance workshops, test tracks, administration and OCC buildings, spare parts warehouses, and other depot operation-related facilities.
- **Public Utilities Relocation (if necessary):** This involves the careful relocation of any existing public utilities that may interfere with the project.

(b) Rail System:

This component focuses on the detailed design, supply, and implementation of the metro's core rail system, including:

- **Rolling Stock:** Including the carbody, bogies, entrance doors, couplers, traction motors, braking systems, HVAC systems, broadcasting devices, CCTV systems, Train Control and Monitoring Systems, and other related components.
- **Train Control System:** Implementing Automatic Train Protection, Automatic Train Operation, Automatic Train Supervision, and Communication-Based Train Control systems.
- **Operation Control Center:** Including the Train Control Center, Management Support Computer, Large Display Panels, LAN equipment, Uninterruptible Power Supply, wall controllers, and other related equipment.
- **Communication System:** Comprising digital transmission facilities, train radio facilities, commanding phone facilities, passenger car monitoring systems, and other necessary communication infrastructure.
- **Fare Collection System:** Including the Central Computer, Operation Work Stations, Main Maintenance Work Stations, Managing Station Computers, and other components of an integrated fare collection system.
- **Traction Power and Energy:** Encompassing high-voltage switchgear, rectifier transformers and rectifiers, power cables, substations, and other elements of the traction power system.
- **Platform Screen Doors:** Including completely sealed type, half-sealed type, and railing type platform screen doors.
- **Track Works:** Covering sleeper arrangement, fastener assembly, rail installation, switch installation, track measurement, and other track-related works.
- **Maintenance Facilities:** Providing necessary equipment such as cranes, automatic cleaners, forklifts, air compressors, welding machines, ladder trucks, drilling machines, lathes, and other tools for efficient maintenance operations.

5. Tendering Method and Stages

This project will be implemented through a rigorous two-stage tendering process designed to attract the most qualified and experienced entities or consortia from around the world. This approach ensures a

thorough evaluation of expertise and proposals, ultimately leading to the selection of the most suitable partner for this significant infrastructure project.

Stage 1: Request for Expression of Interest

The initial stage focuses on identifying and notifying suitable candidates with proven capabilities in delivering similar large-scale infrastructure projects.

EOI Submission:

Interested parties are invited to submit their Expressions of Interest, demonstrating their qualifications and experience. More detailed information please kindly refer to Public procurement portal: tender.gov.mn <https://user.tender.gov.mn/mn/invitation/detail/1726456870665>

Stage 2: Request for Proposals and Bid Evaluation

Applicable bidders from Stage 1 will be invited to participate in the RFP stage, requiring the submission of comprehensive technical and financial proposals.

RFP Submission:

Proposals should detail the bidder's proposed solution, methodology, team composition and credentials and pricing

Detailed Technical Assignment and Terms of Reference:

The RFP documentation will include:

- **Detailed Technical Assignment:** Outlining specific requirements and deliverables for each project component.
- **Comprehensive Terms of Reference:** Defining the scope of work, responsibilities, and performance expectations for the successful bidder.

Bid Evaluation:

A detailed evaluation of the submitted proposals will be conducted based on comprehensive technical and financial criteria. The participant who submits a competitive price proposal and provides a technically sound solution that meets the project requirements will be selected, notified of the contract award and invited to contract negotiation.

Timeline:

For detailed information regarding the project timeline, interested parties are encouraged to refer to the public procurement portal. (i.e all relevant documentation, including technical specifications, terms of reference, and further clarifications, can be obtained through the designated public procurement portal. <https://user.tender.gov.mn/mn/invitation/detail/1726456870665>

Disclaimer

The information provided in this first stage document is intended for informational purposes only and does not constitute a binding offer or agreement.

The Procurement Agency of Capital City of Ulaanbaatar, in consultation with Dohwa Engineering Consultant and its consortium, reserves the right to, at any time and at its sole discretion:

- Cancel this REOI process in its entirety.
- Extend the deadline for EOI submission.

- Amend the scope of work project implementation timeline and the entire project budget as outlined in this document based on the final findings and updated feasibility study of the Ulaanbaatar Metro project initiated in 2013 and expected to be finalized in the first quarter of 2025.

Further details and specific requirements for each project component are elaborated upon in Dohwa Engineering Consultant's final feasibility study report.

A detailed explanation of technical specifications can be found on the Mongolian Government Procurement Portal at the following website:
<https://user.tender.gov.mn/mn/invitation/detail/1726456870665>