REQUEST FOR EXPRESSIONS OF INTEREST

(CONSULTING SERVICES - FIRMS SELECTION)

HASHEMITE KINGDOM OF JORDAN

JORDAN WATER SECTOR EFFICIENCY PROGRAM

IBRD Loan No. 9560-JO, CFF TF No. TF0C1892, AFD No. CJO 1141 01P

Assignment Title: Design and Construction Supervision for ***(Qasabat Jerash and Surrounding Areas, Al Jazaazeh, Hamta, East Jerash, and Kufr Khall)***

Reference No*.:* ***JO-YWC-101-CS-QCBS/2025***

The Ministry of Water and Irrigation has received financing from the International Bank for Reconstruction and Development (World Bank), the Agence Française de Développement (AFD) and Global Concessional Financing Facility (GCFF) in the amount of US$300,000,000, toward the cost of the Jordan Water Sector Efficiency Project, and it intends to apply part of the proceeds to payments for consulting services to be procured under this project.

The consulting services ("the Services") is to provide professional technical services to support activities that will pave the way for the Ministry of Water and Irrigation (MWI) & Yarmouk Water Company (YWC) to effectively plan and manage water networks, as public resources, and enable provision of better-quality services alongside them, including better management and maintenance of water network. The aim of the assignment is to: to facilitate the smooth execution of a project for rehabilitation of water network, water facilities, and household connections, by meticulously preparing engineering designs and tender documents, supervising works contracts, and ensuring compliance with approved designs and technical standards. The objective encompasses overseeing provisional taking-over and defects liability periods, including inspections, certifications, and reporting. Emphasizing adherence to schedules, budgets, and environmental standards, the project also prioritizes gender equality by actively promoting the inclusion of women in the workforce and fostering a safe, inclusive workplace environment.

The TOR full version can be found on Yarmouk Water Company (YWC) website at the following link
http://www.yw.com.jo/Tenders.aspx

The Yarmouk Water Company (YWC) now invites eligible consulting firms ("Consultants") to indicate their interest in providing the Services. Interested Consultants should provide information demonstrating that they have the required qualifications and relevant experience to perform the Services. Consultant Brochures may also be included in the EOI. The shortlisting criteria are:

1. Description of similar assignments
2. The firm's core business and general experience years in business and overall competence in relevance to this assignment.
3. The firm having a sound financial status.

It is preferable to limit the EoI to a maximum of 50 pages.

Please note that at this shortlisting stage: Technical and financial proposals are not requested. Key Experts, if proposed for the assignment, will not be evaluated. Request for clarifications on the EOI shall not be replied to

The shortlist will contain 6 to 8 firms.

The attention of interested Consultants is drawn to Section III, paragraphs, 3.14, 3.16, and 3.17 of the World Bank's "Procurement Regulations for IPF Borrowers" November 2020 ("Procurement Regulations"), setting forth the World Bank's policy on conflict of interest.

Consultants may associate with other firms to enhance their qualifications, but should indicate clearly whether the association is in the form of a joint venture and/or a sub-consultancy. In the case of a joint venture, all the partners in the joint venture shall be jointly and severally liable for the entire contract, if selected.

The Applicant's attention is drawn to the following:

a. National consulting engineering firms shall satisfy the requirements as defined in this request for Expression of Interest and the attached ToR and classified as 1st grade –A in water and sewage and 1st grade A in the field of environment by the government tender department.
b. International consulting firms shall satisfy the requirements as defined in this request for Expression of Interest and the attached TOR. If awarded, the international consultant shall abide by the Country's tax laws as applicable;
c. A Joint Venture of national and international consulting firms or an international consulting firm with a local Sub-Consultant, all shall satisfy the requirements under points a and b. The national consulting firm, regardless of whether JV member or Sub-Consultant, shall also meet the requirements mentioned under a) as applicable.

Shortlisted Consultants will be invited to submit their proposals, upon which a Consultant will be selected in accordance with the (QCBS) described in the "World Bank Procurement Regulations for IPF Borrowers", dated November 2020" and to be specifically set out in the Request for Proposals.

Further information can be obtained in writing through the email address below at the address below during office hours (8:00 am to 4:00 pm Jordan Time).

Expressions of interest must be delivered in a hard copy to the address below or by below email(s) by DEC (17), 2025, 12 pm Jordan time.

Recipient(s):

To Bassam Jarboo, Procurement Manager

Email: **bassam_jarboo@yw.com.jo**

with a copy (cc) to Mr. Abdelhadi Bataineh

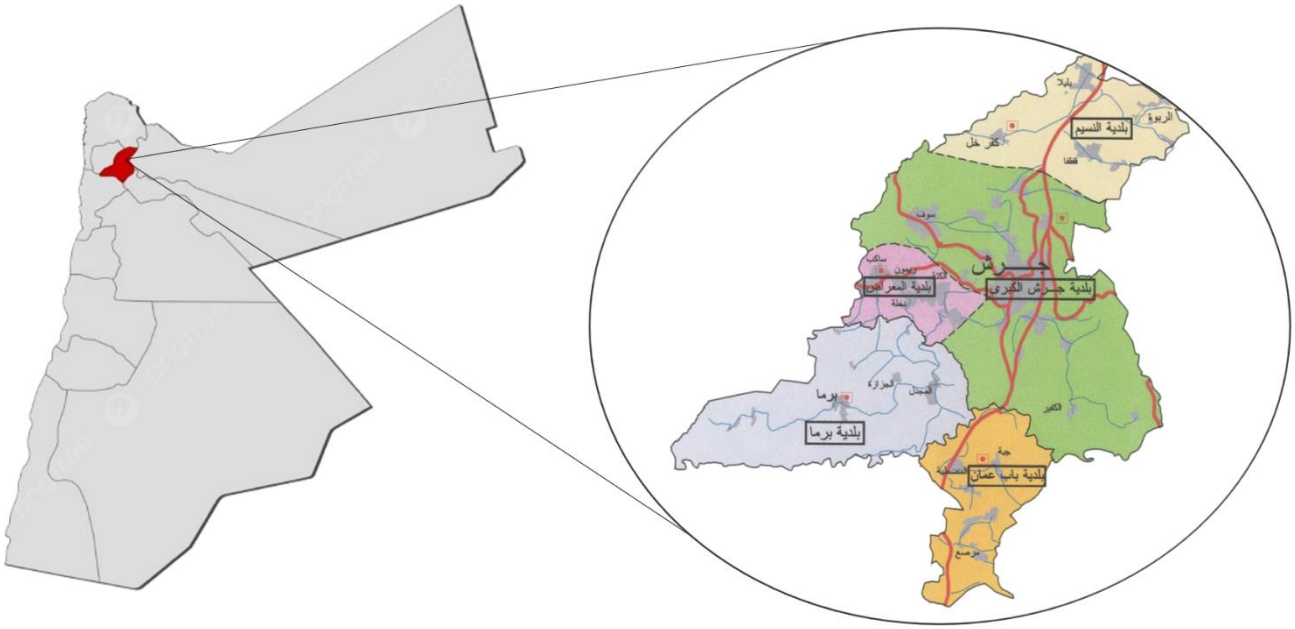
Email: **abdelhadi_bataineh@yw.com.jo**

Address: **Tenders and Procurements Department EOI Title – Bidder Name**
Yarmouk Water Company Irbid, Baghdad St. P.O. Box 3798 Irbid 21110 Jordan

Hashemite Kingdom of Jordan
Ministry of Water and Irrigation
Water Authority of Jordan
Yarmouk Water Company (YWC)

Jordan Water Sector Efficiency Project (JWSEP)

Loan No. 9560-JO, CFF TF No. TF0C1892, AFD No. CJO 1141 01



JO-YWC-101-CS-QCBS

Terms of Reference
Consultancy Services

For The Preparation of Detailed Design and Construction Supervision

Rehabilitation of Water Networks, Household Connections, and Water Facilities in Jerash Governorate (Qasabat Jerash and Surrounding Areas, Al Jazaazeh, Hamta, East Jerash, and Kufr Khall)

November 2025

A. BACKGROUND

The Ministry of Water and Irrigation has received financing from the International Bank for Reconstruction and Development (World Bank), the Agence Française de Développement (AFD) and Global Concessional Financing Facility (GCFF) in the amount of US$300,000,000 to be managed by the World Bank, toward the cost of the Jordan Water Sector Efficiency Project, and it intends to apply part of the proceeds to payments for consulting services to be procured under this project.

The World Bank funded project will have the following components:

- **Component 1:** Sustainable Non-Revenue Water (NRW) Reduction
- **Component 2:** Increased energy efficiency and reduced energy supply costs
- **Component 3:** Water security measures to underpin efficiency improvements
- **Component 4:** Institutional strengthening for water sector Efficiency
- **Component 5:** Contingency Emergency Response

Component 1 of the project "Sustainable Non-Revenue Water (NRW) Reduction"
Aims at (i) rehabilitation or replacement of the water supply network including reconfiguring the network into hydraulically isolated District Metered Areas (DMAs), replacement of household connections, installation of customer and bulk meters, regulation and maintenance of water pressure within the network, and systematic leakage identification and repairs, and (ii) support to preparatory studies and activities for NRW sub-projects.

The works consist of the following parts:

a) Sustainable non-revenue water reduction
b) Modernized systems for sustaining NRW reduction
c.) Community engagement to improve financial sustainability, collections efficiency, and demand control

A Project Management Unit (PMU) is established at the (Jordanian water companies / YWC) over the implementation period of five years. The PMU shall be responsible for the management of project activities including fiduciary operations, contract management and the administration of the projects funds as well as implementation and monitoring of the environmental and social requirements and instruments.

Implementation of the World Bank funded project is guided by relevant environmental and social (E&S) instruments as required under the environmental and social framework (ESF). These include the Project's Environmental and Social Management Framework (ESMF), the Resettlement Framework (RF), Labor Management Procedures (LMP), the Stakeholder Engagement Plan (SEP), and the overall Environmental and Social Commitment Plan (ESCP).

More details about E&S aspects of the project and project components can be found using the link below:
https://www.mwi.gov.jo/AR/List/_%D8%A7%D9%84%D9%85%D8%B4%D8%A7%D8%B1%D9%8A%D8%B9

The current Terms of Reference (ToR) are proposed under Component 1 of the project –NRW and will describe the assignment's requirements and objectives.

B. PROJECT LOCATION AND DESCRIPTION

The project is located in **Jerash Governorate**, situated in **northern Jordan**, approximately **45 kilometers north of Amman**, the capital. Jerash Governorate is one of Jordan's historic and topographically diverse regions, encompassing a mix of urban centers and rural villages. The targeted areas fall primarily within the administrative boundaries of **Qasabat Jerash District** and **Burma Sub-district**, serving a population exceeding **50,000 residents**.

The project's geographical focus is centered around **Jerash city and its eastern and northern suburbs**, with interventions covering several residential clusters and neighborhoods that currently experience water service inefficiencies due to deteriorating infrastructure. The selected areas include:

- Wadi Aldeer Algharbi (وادي الدير الغربي)
- Jabal Alatamat (جبل العتمات)
- Alkhadra Alfoqa (الخضرا الفوقا)
- Almontazah Sector (حي المنتزه)
- Nabi Hood – Old and New (النبي هود القديم والجديد)
- Ajloun-Jarash Road vicinity near Dhaher Al Saru (طريق جرش عجلون بالقرب من ظهر السرو)
- Aljabal Alakhḍar – Irbid Road (الجبل الأخضر طريق اربد القديم)
- Aljazazeh and Himta (الجزازة وهمتا)
- Al-Rashaidah Al-Jadeedah (الرشايدة الجديدة)
- Al-Rashaidah Al-Qadeemah (الرشايدة القديمة)
- Al-Kfair (الكفير)
- Um Ramah (أم رامح)
- Um Qantara (أم قنطرة)
- Al-Ibarah (العبارة)
- Al-Riyashi Area (منطقة الرياشي)
- Parts of Kufr Khal (كفرخل)

All targeted locations are within **Jerash Governorate** and collectively represent a combination of **densely populated residential zones and remote, low-density communities**. Access to these areas is facilitated by a network of regional and local roads, with average travel time from Amman being approximately **60 minutes** under normal conditions.

The **topographical characteristics** of the area are dominated by **hilly, sloped, and mountainous terrain**, with significant elevation variations. These physical conditions present engineering challenges, particularly in terms of hydraulic pressure zones, gravitational flow, and infrastructure placement, all of which must be addressed through context-sensitive technical designs.

Current Conditions and Rationale for Intervention

The existing water distribution infrastructure in the target areas is **aged, inefficient, and prone to leakage**, leading to frequent service disruptions, poor water pressure, and a high level of **Non-Revenue Water (NRW)**. Additionally, some of the **civil and electromechanical components at existing facilities**, including the **Riyashi site (Pump Station) and the Jerash Booster Station**, need rehabilitation to restore full operational capacity.

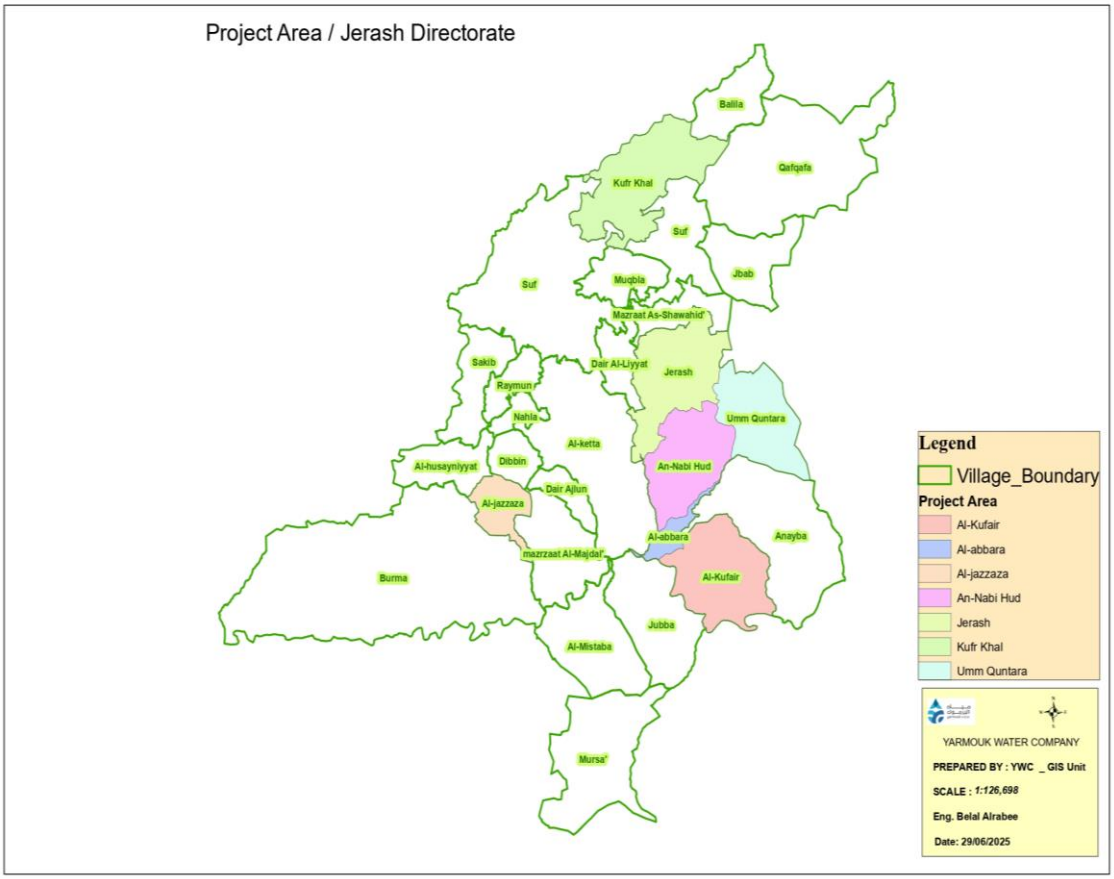
Project Objective:

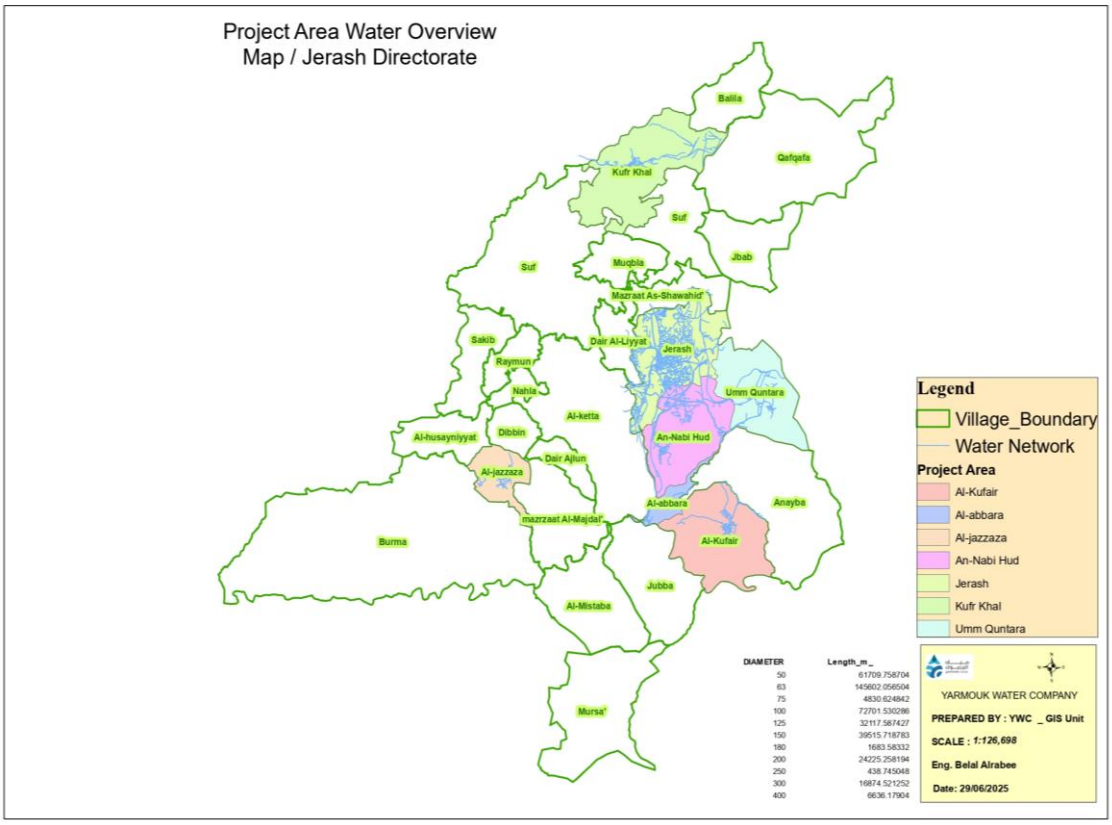
The project, titled **"Rehabilitation of Water Networks, Household Connections, and Water Facilities in Jerash Governorate"**, aims to:

- Design and supervise the rehabilitation of water distribution systems across the identified neighborhoods.
- Improve water supply efficiency and reliability in both urban and peri-urban contexts.
- Address technical challenges arising from terrain variability.
- Reduce NRW through network optimization and metering improvements.
- Rehabilitation and upgrade of associated facilities such as pumping stations, valves, and chambers.

This intervention is in line with the **National Water Strategy of Jordan** and supports the broader efforts of **reducing system losses, enhancing service delivery**, and **ensuring sustainable access to water resources** in underserved areas.

B.1: Project overview Layout:





C. OBJECTIVE OF CONSULTANCY SERVICES

The general scope of the consultancy includes, but not limited to, the following items:

The primary objective of this consultancy assignment is to provide end-to-end engineering and management services for the design and supervision of the rehabilitation of water distribution networks and house connections in Qasabat Jarash and surrounding areas, located within Jerash Governorate, northern Jordan. This intervention is a strategic response to aging infrastructure, high levels of Non-Revenue Water (NRW), and inadequate service coverage across a mix of urban and rural communities, in alignment with Jordan's National Water Strategy 2023–2040 and in coordination with the Yarmouk Water Company (YWC).

The Consultant shall carry out all tasks required to ensure the successful planning, design, procurement, and supervision of water network rehabilitation works within the defined project area. The project will also address the rehabilitation and upgrade of associated civil and electromechanical components at key operational facilities such as Riyashi and Jerash Booster Stations.

D. SCOPE OVERVIEW

The Consultant's services will encompass the following tasks but not limited to:

Task 1: Design Services, Preparation of E&S Instruments, and Preparation of Tender Documents

Develop a **detailed engineering design** for the water supply system, including but not limited to the following:

- Layout and sizing new and rehabilitated pipelines, valves, fittings, water meters, and house connections.
- Hydraulic modeling of the rehabilitated system to optimize pressure and flow efficiency.
- Design of all required civil and electromechanical upgrades at associated pumping stations and control facilities.
- Integration of demand projections and population growth for 2030 and 2040 horizons.
- Consideration of terrain variability and elevation-related pressure challenges.
- Preparation of as-built compatible digital files (GIS and CAD) for asset management integration.

Stakeholder Coordination:

Ensure ongoing coordination with:

- Yarmouk Water Company (YWC),
- Ministry of Water and Irrigation (MWI),
- Local municipalities and Jerash Governorate authorities.
- Environmental regulators, social development departments, and community-based organizations,
- Any other related stakeholder.

Environmental and Social Safeguards Compliance:

- Conduct the required environmental and social assessments for the subproject, including but not limited to conducting and finalizing the subproject's ES screening form and preparing the necessary environmental and social instruments in accordance with the Project's ESMF, RF, SEP, LMP as well as the World Bank ESF, and national requirements.
- Coordinate and communicate with the Ministry of Environment to obtain the environmental permit for the subproject, as well as coordinate with other local authorities and different stakeholders to ensure smooth consultation and effective community engagement during the project design and throughout implementation.

Task 2: Pre-Construction Services

Prepare complete bidding documents for the construction phase in accordance with:

- World Bank Standard Procurement Documents (SPDs) for Works.
- National tendering procedures, as required.
- Detailed technical specifications, bill of quantities (BOQ), cost estimates, and tender drawings.
- Provision of input and support during pre-bid meetings and clarification processes.

Task 3: Supervision of Works

Supervise the execution of the construction works, ensuring:

- Compliance with design specifications, materials, workmanship, and quality standards.
- Full implementation of Environmental and Social Management Plans (ESMPs).
- Daily site inspection, progress monitoring, and contractor coordination.
- Certification of interim and final payments.
- Preparation of as-built drawings, testing and commissioning reports.
- Monitoring during the Defects Liability Period, including follow-up on any required remedial works.
- Issuance of Provisional and Final Completion Certificates.

THE CONSULTANT SHALL PROVIDE HIS SERVICE FOR THE FOLLOWING THREE TASKS:

1. **DESIGN SERVICES, PREPARATION OF E&S INSTRUMENTS, AND PREPARATION OF TENDER DOCUMENTS**
2. **PRE-CONSTRUCTION SERVICES**
3. **SUPERVISION SERVICES**

Task 1: Design Services, Preparation of E&S Instruments, and Preparation of Tender Documents

Task 1 includes the following sub-Tasks:

Task 1.1- Data collection, topographic survey and Geotechnical Radar
Task 1.2- Engineering Design: Detailed designs of water networks and house connections
Task 1.3 Environmental and Social Assessment
Task 1.4 Preparation of Tender Documents

Task 1.1 Data collection and Topographic Survey

a. Data Collection

The Consultant shall initiate this task by reviewing all relevant existing studies, reports, and technical documentation provided by the Client (Yarmouk Water Company), including GIS maps, hydraulic models, asset records, and operational data. This review shall inform a comprehensive assessment of the current condition of the water infrastructure within the targeted areas of Qasabat Jerash, including internal water networks and household connections across both urban and rural communities.

To validate and supplement existing information, the Consultant shall conduct all necessary field investigations, including but not limited to:

- Topographic surveys of the project area to capture elevation profiles, right-of-way constraints, and surface features.
- Geophysical investigations (e.g., Ground-Penetrating Radar or equivalent) to locate underground utilities and identify potential conflicts.
- Site reconnaissance and visual inspections of key facilities and network components.
- Selective geotechnical investigations, particularly in locations identified for potential structural works such as valve chambers, booster stations, or trenching in unstable soils.

The Consultant shall assess the required scope of these complementary investigations and secure the Client's written approval prior to mobilization. The surveys shall be carefully planned to ensure that routing of new or rehabilitated water lines does not interfere with environmentally or socially sensitive areas, including agricultural lands, natural resources, heritage zones, and public utilities.

Furthermore, the Consultant is expected to coordinate closely with any ongoing or planned studies or infrastructure programs led by the Government of Jordan, donors, or bilateral agencies, to avoid duplication and ensure technical harmonization.

All collected data shall be consolidated, verified, and systematically integrated into the design. This will ensure that the proposed water network rehabilitation is based on accurate and up-to-date information, ultimately contributing to enhanced operational efficiency, optimized investment, and a measurable reduction in Non-Revenue Water (NRW).

b. Topographic Survey

A comprehensive topographic survey will be carried out for all the areas mentioned above to generate essential mapping for the project. This mapping will be produced at a scale of 1:2,000, including both plan views and longitudinal profiles, with a horizontal scale of 1:2,000 and a vertical scale of 1:200.

The survey will include:

- Control network establishment: Setting up a network of inter-visible reference markers (traverse). Each marker will be precisely surveyed, leveled, and aligned with the national grid and datum to ensure accuracy.
- Digital mapping production: Creating digital maps and standard sheets at a scale of 1:2000. These maps will serve as the foundational base maps for the design and planning phases of the rehabilitation of the internal water networks and house connections, ensuring precise and reliable data for subsequent project activities.

c. Geotechnical Investigations

Selective boreholes or soil testing at locations where structural works are expected, or significant pipeline replacement segments in unstable terrain.

d. Output and Integration

All collected data shall be:

- Digitized, validated, and geo-referenced as appropriate.
- Integrated into the project's GIS database and used to update the hydraulic models.
- Utilized to refine the engineering designs and inform the feasibility analysis for networks.

This task ensures that subsequent project phases—design, costing, and construction—are based on accurate, reliable, and field-verified data, ultimately contributing to improved water service delivery, better pressure control, and reduced NRW.

Task 1.2 - Engineering Design: Detailed designs of water networks and house connections

Develop a detailed engineering design package for the proposed system upgrades to include the following:

- Restructuring the networks and creating DMAs.
- Layout and sizing new and rehabilitated pipelines, tanks, reservoirs, PRVs, valves, meters, and house connections.
- Hydraulic modeling and zoning optimization for pressure control and leakage reduction.
- Design of electromechanical upgrades, including replacement of pumps with energy-efficient VFD systems.
- Integration of future demand projections up to 2040.
- Digital delivery of design files in GIS and CAD formats, compatible with YWC asset management systems.
- Provide plan-profiles and details for the chambers, pumping stations, and water tanks, etc.
- Prepare the technical specifications for all design elements.
- Prepare design reports.

Structural Drawings: The consultant shall prepare comprehensive structural drawings for all systems involved. These drawings must include complete structural designs and construction details for the champers, air release valves, washouts, road crossing, encasement when needed, house connections,

and pump stations. Ensure that all aspects of the structures are accurately represented to facilitate effective implementation and compliance.

Plan and Profile Drawings: The design shall incorporate detailed plan and profile drawings of the water supply network and associated structures. These should be supported by standard details and include longitudinal profiles of all water lines. The drawings must adhere to the following scales:
Horizontal Scale: 1:2,000
Vertical Scale: 1:200

Task 1.3 Environmental and Social Assessment

The subproject was initially screened against the Project Exclusion list and the available information (please see Annex 3 the initial environmental and social screening for the subproject), the consultant shall conduct and finalize the initial environmental and social screening of the sub-project as per the ES screening template in the ESMF for client and Bank review and clearance. The screening will identify the E&S instruments per each Environmental and Social Standards (ESS) and the consultant will draft those required instruments in accordance with the ESS's and the national regulations.

The consultant will submit the screening report for the ESSD and the Water Company for review, prior to submitting for the World Bank guidance. This process is further detailed here and in the ESMF:

- For ESS1, based on the findings of the screening, the consultant shall prepare the more stringent requirement among the World Bank and the Ministry of Environment (MoEnv.) requirements (i.e. preliminary ESIA/ESMP full-fledged ESIA/ESMP, IEE/ESMP, detailed ESMP or ESMP checklist) , and identify the ES instruments in accordance with the ESF requirements; in accordance with ESS1, ESS2, ESS3, ESS4, ESS5, ESS6, ESS8, and ESS10, assessing each standard while applying the ESF mitigation hierarchy. This process is described in detail in the ESMF (The instruments' outline should also include all World Bank requirements in addition to the national ones according to the MoEv.) and will be completed in close coordination with the ESSD, the water company and upon guidance from the World Bank.
- The consultant will draft E&S instruments per each ESS and the national guidelines and procedures and submit to the World Bank and where applicable to the Ministry of Environment for their clearances according to the ESMF.
- The (Implementing Agency) IA, with support from the consultant, will prepare the application for submission to the MoEnv. The IA will formally issue the application letter to the MoEnv, and the consultant will then follow up and continue the approval process with the MoEnv. The MoEnv will classify the project risk in accordance with Environmental Classification and Licensing Regulation No. 69 of 2020 and its amendments. High-risk projects require a comprehensive ESIA, and substantial (medium)-risk projects require a preliminary ESIA. The consultant will prepare and submit all required documents to obtain the Environmental License (MoEnv Clearance) and Environmental Permit before project operation. Draft ES instruments will be reviewed by the World Bank, and the consultant will incorporate the Bank's feedback before submitting the draft to the MoEnv for approval.
- Upon the completion of the E&S screening report, the Consultant will identify what ES measures and plans that the contractor will prepare as part of its MSIP prior to commencing the works including but not limited to: Archaeological Chance Find Procedure (ACFP), Occupational, Health and Safety (OHS) Plan, Traffic management Plan (TMP) -Conceptual layouts, Waste Management Plan (WMP).

The ESIA/ESMP or IEE/ESMP or ESMP draft will be submitted for the World Bank review and clearance. The final draft will be cleared upon the satisfaction of the World Bank and the Ministry of Environment (if applicable).

The consultant is required to conduct stakeholder consultations as needed during the preparation of the different E&S instruments. The feedback received will be reflected in the different instruments before finalization.

If a Resettlement Action Plan (RAP) or a Livelihood Restoration Plan (LRP) is required, it will be prepared closely with the ESSD and the Water company, and in accordance with the requirements of the project's Resettlement Framework (RF). Necessary consultations with project affected people (PAPs) will be conducted as required.

Task 1.4 Preparation of Tender Documents

a. Final Engineering Report

The Consultant shall prepare a comprehensive Final Engineering Report that includes a detailed description of the project, outlining its scope and objectives. The report must present the results of the reconnaissance study, and all other relevant studies conducted during the project. It should provide a thorough summary of the design criteria that were adopted for the various components of the project, ensuring that all aspects of the design are clearly documented. Additionally, the report must include a detailed description of the recommended design, with specific technical details and justifications for the proposed solutions.

In addition to the general project description and design details, the Consultant will assist in integrating Environmental and Social Framework (ESF) requirements into the bidding documents. This involves drafting the ESF sections of the Standard Procurement Documents, ensuring that the Environmental and Social Management Plan (ESMP) is effectively incorporated, and integrating ESF requirements into the identified contracts under the Management and Supervision of Infrastructure Projects (MSIP). The Consultant will also identify with the necessary expertise and qualifications for ESF personnel to ensure compliance with all relevant standards and regulations.

The integration of ESF requirements into the bidding documents and project plans is crucial to maintaining adherence to environmental and social standards throughout the project lifecycle. The Consultant's role will include providing any additional support needed to ensure that these requirements are thoroughly addressed and incorporated into all stages of procurement and implementation.

b. Design Calculation Notes

All design calculation notes shall be compiled in a specific volume.

c. Quantities Calculation Notes

All quantities calculation notes of the various trades of the Project shall be compiled in a specific volume.

d. Confidential Pair Price Estimate

Fair price estimate shall be prepared and presented in a separate confidential document. In the preparation of the fair price estimate, the Consultant shall conduct a study of current unit prices of various work items from the contracts currently under construction and current market prices of materials and labor. The breakdown of the unit prices shall be presented on MS Excel spreadsheets.

e. Tender Documents

The Consultant shall prepare tender and contract documents for each section of the project according to World Bank's Standard Bidding Document (SBD). The documents shall include the following:

Volume 1: Conditions of contract

This document shall include but not limited to:

- Invitations to Bid
- Instructions to Bidders
- Qualification and Evaluation Criteria
- Forms of Bid
- Forms of Bid Bond and Performance Bond
- Form of Advance Payment Guarantee
- Schedule of Day Work Rates
- Schedule of Basic Rates
- Form of Contract
- General and Special Conditions of Contract
- Environmental, Social, Health and Safety (ESHS)
- Identified Plans under the MSIP (Traffic Management plans typical details and layout using international standards, OHS plans, Archaeological findings, and other plans identified by ESS's
- ESMP

The Conditions of Contract shall be based on the World Bank SBD. At such time, the Consultant shall coordinate with the Employer to finalize the conditions of the contract.

Volume 2: Specifications

The Consultant shall prepare all specifications required as requested by the Employer.

Volume 3: Bill of Quantities

The bill of quantities shall be prepared as requested by the Employer. Clearly notifying the costs of implementing the E&S plans and measures shall be embedded in each unit cost as set out in the SPD.

Volume 4: Contract Drawings

The drawings shall comprise the following:

Plans and profiles of the selected areas at 1/2,000 horizontal and 1/200 vertical scale. The drawings shall include all design data for the construction of the water lines and house connections.

Contract Drawings listed above shall be presented in this order:

- Cover Sheet
- List Of Drawings & Abbreviations
- General Drawings
- General Location Plan
- Layout Plan
- Topographical Survey Plan
- House Connection's Location Plans
- House Connections Details
- Structural details for rehabilitation of the internal networks where it is needed.

Task 2: Pre-construction Services

Bids Review and Award: Upon receipt of bids for the implementation of the works, the Consultant shall support the Client throughout the bid evaluation process. This includes assisting with technical discussions during pre-bid meetings with bidders to clarify any aspects of the scope of the work. If the scope of the design requires any clarifications or amendments, the Consultant will prepare these details and ensure they are promptly communicated to the client. During the bid opening, the Consultant will be present to assist with the process and will document the proceedings by recording the minutes of the bid opening. After the bid opening, the Consultant will prepare a comprehensive bid evaluation report. This report will follow the format specified in the bidding documents and provide detailed information necessary to assess the responsiveness of the bids, including an evaluation and comparison of the submitted proposals.

Task 3: Supervision of Works

The Consultant shall develop a comprehensive Project Management Plan to guide the project through the construction stage, and the defects liability period.

The services to be provided by the Consultant shall include, but shall not be limited to:

- Initial Site Handover: Prepare the initial site-handing over certificate in accordance with the contract provisions, while YWC will be responsible for issuing it.
- Construction Supervision: Supervising the construction work to ensure full compliance with the contract requirements. This involves confirming that the contractor executes project activities with the highest level of care. The Consultant must ensure that the Contractor's work plan includes the necessary machinery, materials, skilled labor, and measures to complete the project within the specified timeframe and standards
- Cost and Schedule Management: supervise, monitor, and maintain cost estimates and planning schedules throughout the project.
- Daily Supervision and Compliance: Conduct daily supervision of work activities to ensure adherence to Environmental and Social (E&S) measures outlined in the Environmental and Social Management Plan (ESMP), referencing the Environmental and Social Management Framework (ESMF) and Labor Management Procedures (LMP). Perform monthly on-site audits covering environmental, social, health, and safety aspects.
- Labor and Working Conditions: Supervise the contractor's daily performance with respect to labor practices and working conditions.
- Reporting: Prepare a monthly report on environmental, social, health, and safety performance. Monitor and report on progress, including compliance with social and environmental requirements as specif0ied in the ESMPs. Report and monitor incidents as per the Environmental and Social Commitment Plan (ESCP) requirements.
- Complaints Management: Administer a complaint log to register all received complaints, report them to the project owner, and provide details on how each complaint was addressed.
- Contractor Coordination: Coordinate contractor activities and manage claims and variations in consultation with the Employer.
- Payment Certification: Certify Contractors' monthly and progress payment certificates.
- Contract Administration: Administer the construction contract effectively and supervise the rectification of defects during the defect's liability period.
- Final Certification: Certify the final completion certificate in accordance with contract provisions.

3.1 Planning and Coordination

a. Preparation of Detailed Program

The Consultant shall review the Contractor's detailed work plan submitted, including his methodology for ensuring the quality of the works, and computerized program of all activities and resources for the execution of the work included in this contract. The Consultant's plan and program shall include all activities that interface or otherwise relate to the work being done by the different contractors or other involved parties, including required dates of receipt of data and construction drawings, submittal dates for the various documents, appropriate periods for review etc.

The program shall be prepared using project management software such as "Primavera" or similar compatible software approved by the Consultant and shall be constantly updated throughout the period of the contract.

b. Progress Monitoring-During Construction

To fulfill the above objectives, the Consultant shall at all times take necessary measures and provide appropriate advice to the Client to enable the construction contract to be completed in a timely and cost-effective manner, in conformity with contract conditions and specifications.

The Consultant shall monitor the Contractor's works to determine progress on a monthly basis and ensure that the construction program is maintained, and costs minimized by means of, but not limited to, the following activities:

- Review and, if in agreement, consent to the Contractor's proposed program of work to meet key dates established in the various tasks.
- Prepare and maintain progress programs for use in monitoring and reporting progress.
- Prepare consolidated monthly reports on physical and financial status, site meetings and contractual matters with particular reference to variation orders and contractors' claims. The monthly reports shall deal specifically with monitoring and follow-up of agreed environmental and social mitigation measures and with the contractor's adherence to safety, health standards and anti-corruption measures as applicable under contract. Each monthly report should include recommendations if any, for action by the Client and the Contractor.
- Prepare control charts of the main activities and a project master schedule, indicating both past performance and forecasts for completion including time involved in each case.
- Analyze the variations of construction progress from the Contractor's program; and advise client in a timely manner.
- If and when progress falls behind program, develop in consultation with the Contractor, for approval by the Employer, appropriate modifications to programs and/or work methods to recover the original program.
- Ensure that the Contractor's reporting requirements identified in the management procedures developed by the Consultant are fulfilled.

c. Coordination

The Consultant shall organize coordination and site meetings with the Contractor and suppliers on a regular basis and as necessary. The Consultant shall conduct these meetings on behalf of the Client, take minutes and report to all concerned parties

d. Identify and Protect Antiquities

The Consultant shall examine the "Archaeological and Historical Sites Survey" report prepared during the design phase to ascertain the probable location of antiquities which may be disturbed by construction of the works. If any antiquities are revealed during investigations of construction works, he shall instruct the contractor to immediately implement the approved Chance Find Procedure, take protection measures, stop work in the affected area, and notify the employer without delay.

Environmental and Social Management Plan.

Prior to the construction stage, the Consultant shall review, provide feedback on, and approve site-specific ES documents developed by the contractor, including the CESMP. The CESMP should include all necessary plans such as method statements, HSE plan, WMP, TMP, GRM and any other relevant plans as per the requirements of the ESF pertinent documents for the project. **During construction, the Consultant shall:**

- Perform monitoring on ES specific indicators with reference to the project ESMF, and the metrics specified in the works bidding document.
- Conduct Weekly E&S Inspections to monitor and evaluate the contractor's adherence to ES mitigation measures as outlined in the ESF documents, including but not limited to the ESMP, OHS plan, TMP, WMP, and ACF with reference to the ESMF and LMP. Upon identifying non-compliance, assess the associated risks and recommend corrective measures. Record these measures along with their implementation timeframe in the report. Follow up to ensure the implementation of corrective measures and report compliance.

- Ensure that the grievance mechanism of the project is implemented properly. This through ensuring if there is any complaint submitted from any party and to whom is submitted and how it will be handled and closed. This is to be reflected in the monthly reports submitted to the employer (the WC/ESSD) and submitted upon request to the World Bank.
- Assess any new impacts that emerge during the construction stage and propose mitigation measures based on the mitigation hierarchy in accordance with the ESSs. Provide feasible measures for their elimination, and if elimination is not feasible, propose mitigation measures to minimize risks and impacts, which should be implemented by the contractor.

3.2 Cost Control

a. Monitoring Contract Costs

The Consultant shall be responsible for monitoring of contract costs relative to budget. The Consultant shall utilize a computerized Budget and Cost Forecast (BCF) system and shall prepare, with the Contractor, an estimate of the cost of the various contracts, and incorporate updated quantities, variation orders, day works, potential costs of claims, and projected expenditure from provisional sums. The estimated cash flow up to completion of the contracts shall be prepared, updated based on the revised contract costs, and submitted each month in line with the management procedures.

b. Claims Management and Variation Orders

The Consultant shall anticipate potential claims and shall take steps to mitigate their effect. The Consultant shall assess the need for variations to the Contract and any claims submitted by the Contractor, review their merits and, where appropriate, prepare variation approval requests and submit them to the Employer for approval prior to preparing variation orders and issuing them to the Contractor.

c. Certify Contractors' Monthly Statements

The Consultant shall process in a timely manner and, as appropriate, certify for payment the Contractor's monthly interim statements to ensure that such statements reflect work completed. The statements shall be based on measurements on site. The measurements on site shall be made jointly by the Contractor and the Consultant. The consultant shall prepare and submit to the Client the final cost for the measured completed works.

3.3 Record Keeping

a. Preparation of Reports

The Consultant shall prepare all necessary reports for progress and record purposes. The preparation of these reports should include, but not be limited to, the following activities:

- Prepare and agree with the Employer appropriate formats and review and approval of these formats, if required, as work proceeds.
- Collect and check daily and shift reports from the Contractor for labor (disaggregated by type of job, gender, location and nationality of worker) and equipment in anticipation of preparing weekly and monthly summary reports.
- Keep records of all measurements and agreements and incorporate measurement data in monthly progress reports and cost monitoring systems.
- Undertake the correct and timely distribution of all reports.
- Minutes of site and coordination meetings shall be distributed within the three days following the meeting.

- Monthly progress reports will be standardized as per the management procedure developed. The Consultant shall follow these standardized formats.
- The Consultant shall prepare and/or supervise the preparation of cost reports, progress reports, construction schedules, estimates of monthly cash requirements, Contractor's estimates for payments, and such other reports and data as may be desirable or as may be directed by the Employer. Monthly construction progress reporting will use the "Earned Value" technique requiring the provision of an activity completion report for each contract with an "S" curve, and a tabular cash flow report.

b. <u>As-Built Drawings and Completion Report</u>

The Consultant shall be responsible for ensuring that the Contractor maintains at the site a complete set of "as-built" drawings for the Contract as the work proceeds. To this end the Contractor shall:

- On a set of working drawings maintain a continuous reproducible "as-built" record of the actual alignments, levels, dimensions etc. to which the works have been constructed.
- On completion of the construction of each structure/section, transfer all recorded changes to a CAD file (original CAD files to be supplied by designer), or prepare new CAD drawings as required.
- Prepare completion reports for all major structures or elements of the contract works, incorporating as-built records and drawings, within 60 days of issue of any taking over certificate. Completion reports shall also include details of construction methodology, test results, O&M recommendations etc.
- The Consultant shall audit on a monthly basis, and maintain audit records for review by the Client, the Contractor's performance in producing as-built details and completion reports.

3.4 Supervision of Contract Works

a. <u>Project Manager Function</u>

The Conditions of Contract for the construction contracts are based on World Bank Conditions of Contract and special conditions. The Consultant will be required to obtain specific approval from the Employer before taking certain actions.

b. <u>Construction Works and Materials Inspections and Approvals</u>

The Consultant shall supervise and inspect the construction works including, but not limited to, the following activities:

- Supervising and inspecting the works of the contractors and suppliers for completion of the contracts in accordance with plans and specifications.
- Monitoring environmental, social, and health and safety requirements, whether specified or not, and ensuring that requirements are fulfilled.
- Taking photographs during construction and installation and keeping a daily diary of construction activities.
- Supervising and approve all tests to be carried out by the Contractor and suppliers.
- Supervising and approve final evaluation of all measurements made by the Contractor including the provision of all necessary measurement instruments.
- Supervising the assembly, installation, preliminary tests, initial operation and preparation for commissioning of all machinery and equipment on site.
- Supervising through qualified inspectors jointly with the Employer the execution of the acceptance tests prior to convening the taking over committee and issuing the Taking Over Certificate.

- Preparing and submitting to the Employer inspection and test reports and certificates of acceptance.
- Supervising the commissioning of all structures and plant. The Consultant shall assist in the involvement of concerned operating staff, co-ordinate testing and commissioning programs and prepare taking over certificates.
- Administer day works as required.
- Follow up on the manufacturing of all equipment to ensure compliance with the specifications, including monitoring of certificates of origin, and supervise their delivery to ensure compliance with contractual time schedules.
- Follow up on packing, transportation and delivery, as well as temporary storage, and supervise the storage at site of all equipment, materials and supplies, together with ensuring that Letters of Credit are opened by the Contractor where appropriate.
- Promote a good working environment and monitor labor relations, living and community relations to be able to identify potential problems and solve them promptly as set forth in the various contracts.
- Enforce the maintenance and protection of traffic procedures and schemes as detailed in the drawings
- Enforce the Contract's Safety, Health and Environmental Regulations.
- Ensure that the Contractor complies with the contract in respect of insurance.

3.5 Defects Liability Period

The objective of the services during the defect's liability period is to oversee the maintenance activities during one year, by drawing the attention of the contractor to any defect and by inspecting the remedial works. For purposes of carrying out these services the Consultant shall assign his Project Manager to make two visits to carry out the following:

- Inspections of outstanding works and remedying defects.
- Prepare and recommend to Client the issuance of Defects Liability Certificate.
- Review and certify Final Payment Certificate.
- Prepare Final Completion Report.

E. REPORTING REQUIREMENTS FOR DELIVERABLES

The Consultant shall carry out all required inspections and studies for the successful implementation of the project and shall therefore submit a complete package of Plans, Specifications and Estimates (PS&E). The reporting language should be English.

The Consultant reporting requirements shall include but not limited to the following:

For Task 1: Design Services, Preparation of E&S Instruments, and Preparation of Tender Documents

Task 1.1- Data collection and Topographic Survey:

- Preliminary Assessment Report
- Topographic Survey
- Any other site surveys conducted

Task 1.2- Engineering Design: Detailed designs of water networks and house connections:

- The Consultant shall carry out all required studies and designs for the successful implementation of the assignment and shall therefore submit a complete package of plans/ profiles, specifications and cost estimates (PS&E).

Task 1.3- Environmental and Social Assessment:

- Detailed E&S Screening Report/Form
- Environmental & Social Safeguard instruments including the following
- ESIA/ESMP, or preliminary ESIA/ESMP, or site specific ESMP, or site specific ESMP checklist
- Sub-project Stakeholder Consultation and Coordination Plan
- Sub-project-level Grievance Procedure
- Additional provisional E&S instruments, as identified in the detailed E&S Screening Report/Form

Task 1.4 Preparation of Tender Documents:

- Final Engineering Report (4 copies)
- Design Calculation Notes
- Quantities Calculation Notes
- Confidential Fair Price Estimate
- Final Tender Documents (10 copies): using the World Bank procurement regulations
- Volume 1: Conditions of Contract
- Volume 2: Specifications
- Volume 3: Bill of Quantities
- Volume 4: Contract Drawings
- All E&S instruments reports as defined under Task 1.3 (approved by the Client and cleared up by the World Bank).

The Client shall first review and approve draft final documents submitted. Once these documents are approved, the Consultant shall submit the required number of copies of together with two soft copies on computer CD-ROM. The drawings shall be in AutoCAD version 2017 format or later and all text reports in MS Word and Excel. Tender documents shall be submitted in editable format and in Adobe Acrobat PDF format.

For Task 2: Pre-construction Services

After completion of the bid opening, the consultant shall prepare his bid evaluation report following the outline stated in the bidding document with sufficient details to determine the responsiveness of the bids and to evaluate and compare the financial bids of the responsive bids and provide price analysis of the lowest responsive bid. The Consultant bid evaluation report shall be submitted in non-editable format and two (2) hard copies to the client.

For Task 3: Supervision of Works

Reporting during the Construction Period Services

INCEPTION REPORT

The Consultant shall submit the Inception Report within six weeks of commencement of the works contract. This report shall include results of the review of the contractor's work program, contractors E&S submittals and any modifications thereto, status of the contractor's mobilization, advance payment, Bank guarantees and any matter requiring the Employer's attention and action. This report shall be also being submitted in 5 copies.

MONTHLY REPORTS

The Consultant shall prepare monthly progress reports for the duration of the contract. These are to be submitted in 5 copies and should reach the Client not later than 10 days after the end of the month being reported on.

The format of the monthly progress reports shall be agreed with the Client. The report will include but not be limited to the following:

- Useful information regarding the implementation of the contract allowing a technical and financial follow-up of the project.
- Recording of any agreed changes on the original envisaged technical solutions.
- Major changes in quantities compared to contractual Bill of Quantities.
- suggestions for resolution of any technical and other problems (a separate section will be given to cover issues, problems and solutions) which occur and those affecting the progress of the work such as variation orders and claims of the contractors.
- Financial status of both the construction and the supervision of the civil works.
- Progress charts include percentages of completion of individual main work items and overall project/contract.
- Weather information and charts.
- Construction and supervision data.

Also the monthly progress report will include results of the E&S monitoring requirements which include, but are not limited to, assessment of the degree of compliance of the contractor to all Environmental and Social instruments but not limited to the Contractors' Environmental and Social Monitoring Plan (CESMP), Occupational Health and Safety (OHS), Traffic Management Plans (TMP), requirements of the archeological & Historical chance find procedure.

The reporting shall cover the implementation status of mitigation measures, results of environmental and social monitoring and evaluation, and compliance with the environmental and social requirements, including Health and Safety measures, immediate reporting on any related incident/accidents. Corrective actions implemented, records of any archeological & Historical artifacts found during construction, etc. A section on the Consultant progressing of the activities, including schedule at the site to conduct monitoring and evaluating of the ES work, and the planned activities.

QUARTERLY PROGRESS REPORTS

The Consultant shall prepare quarterly monthly progress reports for the duration of the contract following the same format of the monthly progress report and summarizing the past 3 monthly progress reports. These are to be submitted in 5 hard copies and 1 electronic editable version by email and should reach the Client not later than 10 days after the end of the month being reported on.

FINAL REPORT

The Final Report in five (5) copies to the Client and one (1) copy to the financier(s) shall be submitted no later than one month after the substantial completion of construction works. The report should enable the Client to know the type, quality and quantity of materials used and all the information which together with the as-built drawings (original and 6 copies) and specifications will help in the maintenance of the roads.

The report shall also include a summary of the principal difficulties encountered during construction and the means employed to overcome them, changes (if any) made in the original designs, modifications to specifications and conditions of contract, all variation orders, assessment of claims by the contractor, utilization of provisional and price variation and physical contingency sums, cumulative monthly payments to the Contractor, by date and number of payment certificate and break down into foreign and local currencies and including a similar payment schedule for supervision services. The details of the overall project costs (construction and supervision) with justification for any significant differences with the original shall be given in the final report.

Reporting for Defect Liability Period Services

Final Completion Report: Upon issuance of the defects liability and the final payment certificates, the Consultant shall prepare within 30 days the Project Final Completion Report in ten (5) copies to the Client and two (2) copies to the financiers (World Bank). The report shall include a separate section on proposed future maintenance activities and related arrangements for the road sections supervised.

F. TEAM COMPOSITION & QUALIFICATION REQUIREMENTS FOR THE KEY EXPERTS

For Task 1: Design Services, Preparation of E&S Instruments, and Preparation of Tender Documents

The Consultant shall employ such staff as may be necessary to fulfill his obligations under the agreement. An assessment of the minimum staff required is set out here below. However, the Consultant shall make his own assessment of the staff necessary to fulfill his obligations. All such staff are to be fluent in the written and spoken use of the English Language and shall also be fully computer literate.

The Consultant's key personnel proposed shall include but not necessarily limited to:

K-1: Project Manager – Water Infrastructure

- B.Sc. in Civil Engineering.
- Minimum of 15 years of increasingly responsible experience, at least five of which are in a similar management position on comparable projects, and shall have a broad knowledge of infrastructure projects.
- Languages: English and Arabic.

K-2: Senior Civil Engineer/ Water Networks Design

- B.Sc. in Civil, Hydraulic, or Environmental Engineering.
- Minimum 10 years of experience in water supply projects, including at least 5 years in designing urban and rural water distribution systems and house connections.
- Languages: English and Arabic.

K-3: Hydraulic Modelling/ Drainage Engineer

- B.Sc. in Civil, Hydraulic, or Environmental Engineering.
- Minimum 10 years in hydraulic modeling for water systems using tools such as EPANET, WaterGEMS, or similar. Experience must include DMAs design, and design calibration/ validation and NRW modeling strategies.
- Languages: English and Arabic.

K-4: Environmental Specialist

- B.Sc. in Environmental Engineering or Environmental Science.
- Minimum 10 years in environmental assessment, preparation of ESMPs, and implementation monitoring.
- Familiarity with environmental and social standards of international financial institutions (IFI) is a must while previous experience with preparing safeguard instruments according to World Bank safeguard policies is a plus.
- Languages: English and Arabic.

K-5: Social Specialist

- Master's degree in Social Sciences, Anthropology, or Sociology.
- Minimum 10 years in conducting social assessments for infrastructure projects. Knowledge of and experience with the social and cultural context under the project area. The ability to identify and address risks and impacts on disadvantaged or vulnerable individuals or groups.
- Familiarity with environmental and social standards, such as those of the World Bank or similar institutions.

- Strong analytical skills to understand complex social issues and to develop appropriate mitigation measures.
- Experience in preparing social management plans, and resettlement action plans.
- Languages: English and Arabic.

K-6: Structural Engineer

- B.Sc. in Civil Engineering, Structural Engineering, or relevant discipline.
- Minimum 10 years of experience in water supply projects, including at least 5 years in designing urban and rural water distribution systems and house connections.
- Languages: English and Arabic.

K-7: Procurement and Contract Management Specialist

- B.Sc. in Civil Engineering, Contract Management, or relevant discipline.
- Minimum 10 years in procurement and contract administration.
- Experience with FIDIC Conditions of Contract and World Bank Standard Procurement Documents is required.
- Languages: English and Arabic.

K-8: Electromechanical Engineer

- B.Sc. in Electromechanical or Mechanical Engineering.
- Minimum 10 years in the design and supervision of electromechanical components, especially for pumping stations and booster facilities.
- Languages: English and Arabic.

The CV's of all the positions mentioned above shall be submitted for conformity with qualifications. Evaluations will be conducted for the CVs of positions K1, K2, K3, K4, K5, K6, K7 and K8 only.

For Task 2: Pre-construction Services

K-1: Project Manager – Water Infrastructure – qualification similar to the above

K-7: Procurement and Contract Management Specialist - qualification similar to the above

In this task, the Consultant shall employ the staff of the two above positions and such other key staff K-3 to K-8 as needed from Task 1 as may be necessary to fulfill his obligations.

For Task 3: Supervision of Works

The Consultant shall employ such staff as may be necessary to fulfill his obligations under the agreement. An assessment of the minimum staff required is set out below. However, the Consultant shall make his own assessment of the staff necessary to fulfill his obligations. All such staff are to be fluent in the written and spoken use of the English Language and shall also be fully computer literate.

Office Backup Staff

The Consultant's shall provide back-office support that will be needed during the construction phase including but not limited to, technical support, contract management, administration support, and financial management.

Construction Supervision Staff

The Consultant shall make his own assessment for the staff needed and their time participation for carrying out the work but this must comprise at least the minimum specified here. The Consultant shall also make his own assessment of the staff necessary to perform the supervision of the contractor during construction and the defects liability period. However, upon construction start-up the consultant shall seek client's approval on the Field staff in case of changes since proposal submission and their number.

No staff shall be mobilized until the Consultant has received formal written approval from the employer for each member of staff. Such approval shall be provisional. During the first three months of their duties, performance of each member of the Consultant's staff will be monitored. If the performance of a member of the Consultants' staff is deemed inadequate by the client, the Consultants shall provide a replacement. An indicative list of Key (K) and Non-Key (NK) staff is presented below:

K-9 Project Manager/ Resident Engineer

- B.Sc. in Civil Engineering.
- Minimum 15 years of experience, out of which 10 years of experience as a Project Manager/ Resident Engineer in infrastructure construction projects using a FIDIC contract or equivalent.
- Shall have extensive experience in infrastructure and contract administration.
- Languages: English and Arabic.

K-10: Site Engineer – Water Networks

- B.Sc. in Civil Engineering.
- Minimum 10 years of experience in supervision of water network construction and installation works.
- Languages: English and Arabic.

K-11: Electromechanical Engineer

- B.Sc. in Mechanical or Electrical Engineering.
- Minimum 7 years of experience in electromechanical systems related to water facilities, including pumping stations, control panels, instrumentation, and SCADA systems.
- Languages: English and Arabic.

K-12: Environmental Specialist

- B.Sc. in Environmental Engineering or Environmental Science.
- Minimum 10 years of experience in implementing and monitoring ESMP, SEP, LMP, and environmental/social compliance requirements.
- Languages: English and Arabic.

K-13: Social Specialist

- Master's degree in Social Sciences, Anthropology, or Sociology.
- Minimum 10 years of experience in social impact assessment, stakeholder engagement, and community development.
- Experience working with vulnerable groups and culturally diverse communities.
- Familiarity with World Bank ESF or similar international social safeguards.
- Languages: English and Arabic.

K-14 Health and Safety Engineer (OHS)

- B.Sc. in Occupational Safety, Safety Engineering, Civil/Mechanical Engineering, or related field. International safety certifications such as NEBOSH, IOSH, and OSHA are mandatory.
- Minimum 7 years of experience in OHS management on construction or infrastructure projects.
- Proven experience with international standards (ISO 45001, OSHA best practices).
- Experience in incident investigation, risk assessment, and safety audits.
- Languages: English and Arabic.

K-15: Quantity Surveyor/ Contract Administrator

- B.Sc. in Civil Engineering or Quantity Surveying.
- Minimum 5 years of experience in quantity surveying, measurement, and contract administration.
- Languages: English and Arabic.

K-16: Traffic Safety Engineer

- B.Sc. in Civil Engineering.
- Minimum 5 years of experience in traffic safety management on infrastructure or road-related construction projects.
- Languages: English and Arabic.

NK-1: Quality Control Engineer

- B.Sc. in Civil or Materials Engineering with 7 years of experience in construction materials testing and quality assurance.

NK-2: Land Surveyor

- Diploma or B.Sc. in Surveying or Civil Engineering with at least 5 years of construction surveying experience.

NK-3: Site Inspectors (Civil / MEP)

- Diploma degree in civil engineering or land surveying with minimum of (5) years' experience of similar projects.

NK-4: Document Controller/ Site Administrator

- Diploma in Administration or related field with at least 5 years of experience in document management.

The CV's of all the positions mentioned above shall be submitted for conformity with qualifications. Evaluations will be conducted for the CVs of positions K9, K10, K11, K12, K13, K14, K15 and K16 only.

The above staffing is an indication of the requirements, but the consulting firm has the ultimate responsibility to staff the supervision teams adequately to take full responsibility for quality of the works and timely implementation.

WORKING HOURS

During site construction and installation works the Consultant shall ensure that his staff are on site at all times when the Contractor is working.

Consultant's Facilities

During design stages Office accommodation of a reasonable standard and of approximately 10 square meters for each expert working on the contract and reasonably accessible by phone, fax and e-mail over the duration of the assignment is to be **provided by the Consultant.**

In principle, the costs of the facilities should be included the in the **Consultant's experts fee rates**. The Consultant must ensure that experts are adequately supported and equipped. In particular, the Consultant must ensure that there is sufficient administrative, secretarial and interpreting provision to enable experts to concentrate on their primary responsibilities. It must also transfer funds as necessary to support their work under the contract and to ensure that its employees are paid regularly and in a timely fashion. During the supervision stage, all logistics, including offices, stationery, and furniture, will be provided by the Contractor upon the consultant's request and in accordance with the special contract specifications.

G. DURATION AND PAYMENT SCHEDULE

Estimated duration of the services is 9 (NINE) months during design, 3 (Three) months for Pre-construction services, 16 (Sixteen) Months for Construction and Supervision and 12 (Twelve) months for DLP for quarterly input. The Defect Liability Period for quarterly inputs, this responsibility will be assigned to the Consultant. The Consultant shall provide regular quarterly reports and ensure proper follow-up on any defects or issues during the DLP, ensuring compliance with the contract and addressing any necessary rectifications.

FOR TASK 1

The Consultant shall complete the services of Task 1 according to the following timetable:

Submittal	Duration
Task 1: Design Services, Preparation of E&S Instruments, and Preparation of Tender Documents	
Task 1.1 Data collection and Topographic Survey	ND + 8 weeks
Task 1.2 Engineering Design: Detailed designs of water networks and house connections	ND + 16 Weeks
Task 1.3 Draft ES Instruments in accordance with the ESS's relevant for the subproject: a) Finalized E&S Screening Form b) E&S instruments c) ESIA/ ESMP d) Preliminary ESIA/ ESMP e) ESMP Checklist f) RAP/LAP as needed Based on the final ES screening, one or more of the above E&S instruments will be prepared. Furthermore, additional E&S instruments/mitigation measures would be requested and prepared based on the findings of the E&S screening and assessment.	ND + 28 Weeks
Task 1.4 Preparation of Tender Documents and final E&S Instruments as prepared under task 1.3 The Consultant shall finalize the E&S instruments developed under Task 1.3 and integrate all relevant environmental and social requirements into the tender documents. This includes: • Embedding E&S mitigation measures in the technical specifications and Bill of Quantities (BoQ). • Including contractor obligations related to the ESMP, SEP, LMP, OHS, and GRM in the Conditions of Contract. • Ensuring that ESHS performance criteria are included in bid evaluation. • Providing standard ESF clauses and requirements in accordance with the World Bank's Standard Procurement Documents (SPDs); • Ensuring consistency across the ESMP, procurement documents, and implementation arrangements. The Consultant shall ensure that the integration of E&S requirements into procurement documents enables full implementation and monitoring during the construction and post-construction phases.	ND + 36 Weeks

Where ND: is the Notification of Contract.

Intermediate partial submissions of parts of reports and/or plans for the purpose of discussion are not considered official submissions. Review time is included in the time duration of services.

The duration includes preparing E&S instruments that meet the requirements of both World Bank requirements and national legislation. Also, it includes the review periods by the Ministry of Environment to reflect their comments and feedback in the final English versions of the E&S instruments to be approved by the Bank.

Payment Schedule:

Submittal	Payment Schedule
Task 1: Design Services, Preparation of E&S Instruments, and Preparation of Tender Documents	
Task 1.1 Data collection and Topographic Survey	40% of the total Lump Sum amount of tasks 1.1 + 1.2 + 1.4 due upon submission
Task 1.2 - Engineering Design: Detailed designs of water networks and house connections	30% of the total Lump Sum amount of tasks 1.1 + 1.2 + 1.4 due upon Acceptance by Client
Task 1.3 Draft ES Instruments in accordance with the ESS's relevant for the subproject: a) Finalized E&S Screening Form b) E&S instruments c) ESIA/ ESMP d) Preliminary ESIA/ ESMP e) ESMP Checklist f) RAP/LAP as needed Based on the final ES screening, one or more of the above E&S instruments will be prepared. Furthermore, additional E&S instruments/mitigation measures would be requested and prepared based on the findings of the E&S screening and assessment.	100% of Lump Sum amount for instrument prepared a), b) or c) 100% of Lump Sum amount for instrument prepared d) due upon Acceptance by Client
Task 1.4 Preparation of Tender Documents and final E&S Instruments as prepared under task 1.3	30% of the total Lump Sum amount of tasks 1.1 + 1.2 + 1.4 due upon Acceptance by Client

FOR TASK 2:

Task 2: Pre-construction Services	
Assistance during tendering and preparation of bid evaluation report	12 Weeks

Submittal	**Payment Schedule**
Task 2: Pre-construction Services	
Assistance during tendering and preparation of bid evaluation report	100% of the total Lump Sum amount of task 2 due upon Acceptance by Client

FOR TASK 3:

The Consultant shall quote the cost of his staff, technical, equipment and other costs as he deems to be required. He shall summarize his monthly costs and accompany the same with a schedule showing the involvement of project staff.

In view of the tasks to be achieved, it is anticipated that staff input for task 3 will be 93 key-staff months, as well as 89 Non-Key Staff months.

Staff Remuneration

Staff remuneration covering the monthly remuneration rates for each local and expatriate personnel.

Staffing (Task 3)	**Input in staff-months**
Key Staff	
K-9 Project Manager/ Resident Engineer	16 staff-months + 2 staff-month during DLP
K-10 Site Engineer – Water Networks	14 staff-months+ 1 staff-month during DLP
K-11 Electromechanical Engineer	10 staff-months + 1 staff-month during DLP
K-12 Environmental Specialist	7 staff-months + 1 staff-month during DNP
K-13 Social Specialist	7 staff-months + 1 staff-month during DNP
K-14 Health & Safety Engineer (OHS)	14 staff-months + 1 staff-month during DNP
K-15 Quantity Surveyor/ Contract Admin	10 staff-months
K-16 Traffic Safety Engineer	7 staff-months + 1 staff-month during DNP
Total	**93 staff-month**
Non-Key Staff	
Site Inspectors (Civil / MEP) – 2 persons	28(14*2) staff-months+ 2 staff-month during DLP;
Quality Control Engineer	10 staff-months + 2 staff-month during DLP;
Quantity Surveyor Engineer	8 staff-months
Land Surveyor	6 staff-months+ 1 staff-month during DLP
Document Controller/ Site Administrator	16 staff-months
Liaison officer -2 person	16(8*2) staff months
Total	**89 staff-month**

The Consultant is required to review and adapt and rationalize the staff input outlined in his proposal, such that there will be as much continuity of employment as is practicable in the teams it proposes to assign. The Consultant should consider the prospective peaks of construction activity and ensure the adequacy of staffing levels during such periods, and, at the same time, periods with low productivity

levels should not be un-economically over-staffed. The objective is that the Consultant should propose to assign team that will be best suited to the methodology of its supervision and management systems. The Consultant should also consider the added value that will be provided by its organization.

Depending on the works currently in progress, details of staffing levels will be agreed through the course of the assignment with the Client.

It should be noted that the Consultant shall work according to the contractor's work schedule, which may include work for 7 (seven) days a week.

Appendix 1. General description of the construction project and area

The proposed construction project focuses on the **rehabilitation and upgrading of internal water distribution networks and household connections** within **Qasabat Jarash District** and surrounding neighborhoods, located in **Jerash Governorate**, northern Jordan. The area lies approximately **45 km north of Amman**, encompassing a combination of urban, peri-urban, and rural communities. The project seeks to enhance water service delivery, reduce physical and administrative water losses, and modernize existing infrastructure to align with current and future demand.

The geographical scope includes several zones characterized by **hilly terrain, mixed-density settlements**, and aging infrastructure. These include:

- Wadi Aldeer Algharbi, Jabal Alatamat, Alkhadra Alfoqa, Almontazah Sector, Nabi Hood (old and new), Ajloun-Jarash Road, Aljabal Alakhḍar – Irbid Road, Aljazazeh, and Hamta, as well as neighborhoods in East Jerash, such as:
- Al-Rashaidah Al-Jadeedah, Al-Rashaidah Al-Qadeemah, Al-Kfair, Al-Haziyah, Um Ramah, Um Qantara, Al-Ibarah, Al-Riyashi, and parts of Kufr Khal.

These areas suffer from **inefficient water distribution, high levels of Non-Revenue Water (NRW), intermittent supply, frequent leakage incidents, and deteriorated household connection points**. Many pipelines are undersized or constructed with outdated materials, making them unsuitable for current service demands and pressure conditions, especially in elevated zones.

The construction scope will involve:

- Replacement and rehabilitation of primary and secondary water distribution lines.
- Upgrading of household connections.
- Installation of control valves and metering infrastructure.
- Pressure zone adjustments to accommodate topographic challenges.
- Limited civil and electromechanical works at support facilities such as pump stations or valve chambers, where necessary.

All works will be executed while ensuring **continuous water supply**, adherence to environmental and social safeguards in line with **World Bank's Environmental and Social Framework (ESF)**, and close coordination with **local communities and stakeholders** to minimize disruptions and ensure local ownership.

This intervention directly supports Jordan's national water strategy and the goals of the Water Authority of Jordan (WAJ) and Yarmouk Water Company (YWC) to strengthen resilience and service quality in water-scarce regions.

Appendix 2. List of available documentation (design and studies)

A comprehensive list of available documentation, including design files, studies, and any relevant data, will be provided. These documents will be made available to the consultant upon request at that time.

Appendix 3. Environmental and Social Impact Assessment- Executive Summary

Initial Environmental and Social Screening Form

The Screening Form is gives the PIUS opportunity to ensure sub-project are not excluded, and identify the main risks that can be identified with the available information at the time of drafting Consultants ToR.

Subproject Name	Rehabilitation of Water Networks, Household Connections, and Water Facilities in Jerash Governorate (Qasabat Jerash and Surrounding Areas, Al Jazaazeh, Hamta, East Jerash, and Kufr Khall)
Subproject Location	District- Jarash
Estimated Cost	
Date of screening	

SECTION 1: Exclusion list:

The first step in addressing a subproject's environmental and social risks and impacts is to check the project against the Project's Exclusion List as per the ESMF :

Exclusion List	Yes	No
a. Sub-projects with high ES risks according to Environmental Classification and Licensing System No. 69 of 2020		NO
b. Sub-projects that with high ES risk classification as per the World Bank ESF:		NO
c. The Sub-project is likely to generate a wide range of significant adverse risks and impacts on human populations or the environment. This could be because of the complex nature of the Project, the scale (large to very large) or the sensitivity of the location(s) of the Project. This would take into account whether the potential risks and impacts associated with the Project have the majority or all of the following characteristics: (i) long term, permanent and/or irreversible (e.g., loss of major natural habitat or conversion of wetland), and impossible to avoid entirely due to the nature of the Project; (ii) high in magnitude and/or in spatial extent (the geographical area or size of the population likely to be affected is large to very large); (iii) significant adverse cumulative impacts; (iv) significant adverse transboundary impacts; and (v) a high probability of serious adverse effects to human health and/or the environment (e.g., due to accidents, toxic waste disposal, etc.);		NO

d. The area likely to be affected is of high value and sensitivity, for example sensitive and valuable ecosystems and habitats (legally protected and internationally recognized areas of high biodiversity value), lands or rights of Indigenous Peoples/Sub-Saharan African Historically Underserved Traditional Local Communities and other vulnerable minorities, intensive or complex involuntary resettlement or land acquisition, impacts on cultural heritage or densely populated urban areas.		NO
e. Some of the significant adverse ES risk and impacts of the Project cannot be mitigated or specific mitigation measures require complex and/or unproven mitigation, compensatory measures or technology, or sophisticated social analysis and implementation.		NO
f. There are significant concerns that the adverse social impacts of the Project, and the associated mitigation measures, may give rise to significant social conflict or harm or significant risks to human security. Sub-projects with excavation activities at areas known with water networks containing ACM pipes		NO
g. Sub-projects include activities within or affecting protected areas this includes (a) sites of the Alliance for Zero Extinction (AZE), (b) natural and mixed sites on the UNESCO World Heritage List and (c) legally protected areas (IUCN categories) and, (ii) Any operation leading to an adverse and irreversible residual impact on a critical habitat; (iii) Any forest project or agricultural project with broad coverage (>100 ha) that does not implement a methodology ensuring zero-deforestation.		NO
h. Sub-projects that will cause adverse significant degradation or pollution of the water resources.		NO
i. Sub-projects that have a high probability of serious adverse effects to human health and/or the environment (e.g., due to accidents, toxic waste disposal, etc.)		NO
j. Sub-projects that include any removal or impact on archaeological remains or cultural heritage sites		

Recommendations:

If the answer to any of the questions above is yes, the subproject should be excluded from financing.

If all the answers are no, proceed with the subproject Environmental and Social Screening below and list the appropriate E&S mitigation measures/ instruments.

National permitting requirements:

An environmental application must be submitted to the Ministry of Environment during the design stage to classify the subproject in accordance with Environmental Classification and Licensing Regulation No. 69 of 2020. The Consultant is responsible for obtaining the necessary environmental permit/clearance for the subproject and for preparing the Environmental and Social (ES) assessment reports as required by the Ministry

SECTION 2: ENVIRONMENTAL AND SOCIAL SCREENING

Question	Construction			Relevant ESS	E&S Due Diligence (instruments)
	Yes	**No**	**TBD**		
Does the subproject involve civil works including new construction, expansion, upgrading or rehabilitation of existing infrastructure?	Yes			ESS1/ESS2/ ESS3/ ESS4/ESS4/ESS5/ ESS6/ESS8/ESS10	The more stringent ES assessment requirements among the World Bank and the Ministry of Environment (MoEnv.) requirements, which may include: preliminary ESIA/ESMP, or full-fledged ESIA/ESMP, or IEE/ESMP, or detailed ESMP. Project SEP including community Grievance Mechanism Subproject-specific Community Consultation plan OHS Plan, WMP, TMP, Archaeological Chance Find Procedures during the construction stage
Does the project pass through or nearby sensitive areas (natural, water, archaeological)			**TBD**	ESS1/ESS2/ ESS3/ ESS4/ESS4/ ESS5 ESS6/ESS8/ESS10	Risks to be verified by the Consultant during the design stage, adequate measure to be included in the more stringent ES assessment requirements among the

					World Bank and the Ministry of Environment (MoEnv.) requirements. The Consultant will engage with local community members during the design stage to gather feedback on the subproject and address their concerns. The Contractor shall develop and implement specific community health and safety procedures
Would the project be implemented in area with public facilities nearby (schools, hospital, mosques, city centers, etc.)	YES			ESS1/ESS2/ ESS3/ ESS4/ESS4/ ESS5 ESS6/ESS8/ESS10	Risks to be evaluated by the Consultant during the design stage, adequate measure to be included in the more stringent ES assessment requirements among the World Bank and the Ministry of Environment (MoEnv.) requirements. Project SEP including community Grievance Mechanism Subproject-specific Community Consultation plan. OHS Plan, WMP, TMP during the construction stage

Does the subproject involve the recruitment of workers including direct, contracted, primary supply, and/or community workers?	**Yes**			ESS1, ESS2, ESS10	Project SEP including community Grievance Mechanism Subproject-specific Community Consultation plan Project's Labor Management Procedure (LMP), which includes a Grievance Mechanism (GM) for workers. OHS Plan, Code of Conduct for workers, Project GM (including SEA/SH during the construction stage
Has the subproject included a review of applicable labour national requirements?	**Yes**			ESS1, ESS2, ESS10	Project SEP including community Grievance Mechanism Subproject-specific Community Consultation plan Project's Labor Management Procedure (LMP), which includes a Grievance Mechanism (GM) for workers. OHS Plan, WMP, TMP Code of Conduct for workers, Project GM (including SEA/SH during the construction stage
Will the activity require a larger contractor workforce?	Yes			ESS1, ESS2, ESS10	Associated risks to be verified and evaluated by the Consultant during the design stage. Adequate mitigation measures to be included in

					the more stringent ES assessment instrument among the World Bank and the Ministry of Environment (MoEnv.) requirements. Project SEP including community Grievance Mechanism Subproject-specific Community Consultation plan Project's Labor Management Procedure (LMP), which includes a Grievance Mechanism (GM) for workers. Code of Conduct for workers, Project GM (including SEA/SH during the construction stage
Does the subproject have appropriate OHS procedures in place, road safety measures and an adequate supply of PPE (where necessary)?			**TBD**	ESS1, ESS2, ESS4, ESS10	Site specific associated risks to be determined and evaluated by the Consultant during the design stage. Site specific mitigation measures to be included in the more stringent ES assessment instrument among the World Bank and the Ministry of Environment (MoEnv.) requirements OHS Plan and TMP during the construction stage

Does the subproject include a risk of child and/or forced labour?		No		ESS1, ESS2, ESS4/ESS10	SEP including community Grievance Mechanism Subproject-specific Community Consultation plan Project LMP including GM for workers and Code of Conduct for workers
Is there any other security risk to project workers triggered by project activities?		**No**		ESS1, ESS2,ESS4, ESS10	SEP including community Grievance Mechanism Subproject-specific Community Consultation plan Project LMP including GM for workers and Code of Conduct for workers
Does the project area present considerable Gender-Based Violence (GBV) and Sexual Exploitation and Abuse (SEA) risk?		**No**		ESS1, ESS2, ESS4, ESS10	SEP including community Grievance Mechanism Subproject-specific Community Consultation plan Project LMP including GM for workers and Code of Conduct for workers
Is the subproject associated with any external waste management facilities such as a sanitary landfill, incinerator, or wastewater treatment plant?			**TBD**	ESS, ESS3, ESS6	WMP during the construction stage
Does the subproject have an adequate system in place (capacity, processes and management) to address waste (hazardous and non hazardous)?	**Yes**			ESS1, ESS3	Associated risks to be evaluated by the Consultant during the design stage. Adequate mitigation measures in the more

					stringent ES assessment instrument among the World Bank and the Ministry of Environment (MoEnv.) requirements. WMP during the construction stage
Would the potential outcomes of the project be sensitive or vulnerable to potential impacts of climate change?		**No**		ESS1, ESS3	Associated risks to be verified and evaluated by the Consultant during the design stage. Adequate mitigation measures in the more stringent ES assessment instrument among the World Bank and the Ministry of Environment (MoEnv.) requirements
Will the subproject result in the release of pollutants to air during construction and operation (including nuisances)?	**Yes**			ESS1, ESS3	The more stringent ES assessment requirements among the World Bank and the Ministry of Environment (MoEnv.) requirements, which may include: preliminary ESIA/ESMP, or full-fledged ESIA/ESMP, or IEE/ESMP, or detailed ESMP
Will the subproject result in the release of pollutants (solid and/or liquid) construction and operation to land and environment and natural resources?	Yes			ESS1, ESS3	The more stringent ES assessment requirements among the World Bank and the Ministry of Environment (MoEnv.) requirements, which

					may include: preliminary ESIA/ESMP, or full-fledged ESIA/ESMP, or IEE/ESMP, or detailed ESMP: WMP during the construction stage
Is the subproject expected to be associated with generation of Hazardous waste during construction and operation?		**No**		ESS1, ESS3	Associated risks to be verified and evaluated by the Consultant during the design stage. Adequate mitigation measures in the more stringent ES assessment instrument among the World Bank and the Ministry of Environment (MoEnv.) requirements. WMP during the construction stage
Is the subproject expected to be associated with generation of substantial quantities of construction/demolition waste?	Yes			ESS1, ESS3	Associated risks to be verified and evaluated by the Consultant during the design stage. Adequate mitigation measures in the more stringent ES assessment instrument among the World Bank and the Ministry of Environment (MoEnv.) requirements. WMP during the construction stage
Is the subproject expected to generate	**Yes**			ESS1, ESS3	The more stringent ES

dust/noise/excessive exhaust emissions?					assessment instrument among the World Bank and the Ministry of Environment (MoEnv.) requirements
Will the project will result in increasing the use or depletion of resources?		**No**		ESS1, ESS3, ESS6	Associated risks to be verified and evaluated by the Consultant during the design stage. Adequate mitigation measures in the more stringent ES assessment instrument among the World Bank and the Ministry of Environment (MoEnv.) requirements.
Will the project result in increasing the use the shared water resources?			**TBD**	ESS1, ESS3	Associated risks to be verified and evaluated by the Consultant during the design stage. Adequate mitigation measures in the more stringent ES assessment instrument among the World Bank and the Ministry of Environment (MoEnv.) requirements.
Is there a risk that the selection of the activity location or beneficiaries will lead to community tensions or conflict, including discrimination?		**No**		ESS1, ESS4, ESS10	Associated risks to be verified and evaluated by the Consultant during the design stage. Adequate mitigation measures in the more stringent ES assessment

					instrument among the World Bank and the Ministry of Environment (MoEnv.) requirements. project SEP, GM Subproject-specific Community Consultation plan
Can the activity contribute to the spread of disease (e.g., health facilities)?		**No**		ESS1, ESS3, ESS4	
Is there any other security risk to the community triggered by project activities, including exposure to road accidents and incidents caused by project workers?		**No**		ESS1, ESS2	Associated risks to be verified and evaluated by the Consultant during the design stage. Adequate mitigation measures in the more stringent ES assessment instrument among the World Bank and the Ministry of Environment (MoEnv.) requirements Project SEP including community Grievance Mechanism Subproject-specific Community Consultation plan OHS Plan and TMP during the construction stage
Could the project expose more people to natural hazards or make some people more vulnerable to natural hazards?		**No**		ESS1, ESS3, ESS4	

Will the Project require land acquisition, resettlement?			**TBD**	ESS1, ESS5	Associated risks to be verified and evaluated by the Consultant during the design stage if risks identified, RAP/LRP
Will the project require physical displacement (relocation, loss of residential land or loss of shelter)		**No**		ESS1, ESS5	Associated risks to be verified and evaluated by the Consultant during the design stage if risks identified, RAP/LRP
Will the project cause impacts on livelihood that cause loss of income of the affected persons (including commercial tenants, or assets temporarily or permanently loss of crops, fruits, trees …etc.),		**No**		ESS1, ESS5	Associated risks to be verified and evaluated by the Consultant during the design stage. if risks identified, RAP/LRP
Will the subproject implementation affects assets or access to assets such as access of individuals to their houses and owners / customers to business shops or access to natural or community resources (e.g. pasture, fishing locations, forests, water sources, places of worship, or public spaces)		**No**		ESS5	Associated risks to be verified and evaluated by the Consultant during the design stage. if risks identified, RAP/LRP
Are there any squatters or encroachers on the site?		**No**		ESS5	Associated risks to be verified and evaluated by the Consultant during the design stage. if risks identified, RAP/LRP
Is the project located within or nearby an area that is legally protected, designated for			**TBD**	ESS6	Associated risks to be evaluated by the Consultant

protection, or regionally or internationally recognized as an area of high biodiversity value?					during the design stage. if any risks identified, Adequate mitigation measures in the more stringent ES assessment instrument among the World Bank and the Ministry of Environment (MoEnv.) requirements
Will subproject activities have adverse impact on sensitive or protected areas?		**No**		ESS6	Associated risks to be evaluated by the Consultant during the design stage. if any risks identified, Adequate mitigation measures in the more stringent ES assessment instrument among the World Bank and the Ministry of Environment (MoEnv.) requirements
Will project activities have any adverse impacts or risks to any category of habitats defined under the standard: - Modified habitat: biodiversity effect is negligible - Natural Habitat: biodiversity effect is natural - Critical Habitat biodiversity effect is critical due to extinction threatened species.		**No**		ESS6	Associated risks to be evaluated by the Consultant during the design stage. If any risks identified, Adequate mitigation measures in the more stringent ES assessment instrument among the World Bank and the Ministry of Environment (MoEnv.) requirements
Will the subproject be located or close to a site of			**TBD**	ESS8	Associated risks to be

cultural value or social heritage of local communities?					evaluated by the Consultant during the design stage. if any risks identified, Adequate mitigation measures in the more stringent ES assessment instrument among the World Bank and the Ministry of Environment (MoEnv.) requirements
Does the sub-project have a plan to incorporate measures to allow meaningful, effective and informed consultation of stakeholders, such as community engagement activities; particularly in a way that informs project design and identification of environmental and social mitigation measures?	**Yes**			ESS10	Project SEP including community Grievance Mechanism Subproject-specific Community Consultation plan
Does the sub-project have a plan to coordinate with government agencies and municipalities and utilities about the design, construction and operation as relevant?	**Yes**			ESS10	Project SEP including community Grievance Mechanism Subproject-specific Community Consultation plan
Has there been previous cases of exclusion of persons with disabilities or other marginalized related to the project's implementation? Groups (women, children, ethnic minorities, elderly) in the area?		**No**		ESS10	Project SEP including community Grievance Mechanism
Does the sub-project have a plan to disclose and disseminate information to stakeholders in an accessible, understandable and culturally appropriate format?	**Yes**			ESS10	Subproject-specific Community Consultation plan

Does the sub-project have a plan to consult with women and women's groups to ensure they can anticipate in decision-making processes regarding the activity and to understand safety and security risks including SEA/SH?	**Yes**			ESS10	Project SEP including community Grievance Mechanism)
Is there a risk that exclusion of beneficiaries will lead to grievances?		**No**		ESS10	Project SEP including community Grievance Mechanism
Does the subproject have a GM in place, to which community and stakeholders have access, designed to respond quickly and effectively and transparently?	**Yes**			ESS10	Subproject-specific Community Consultation plan

Conclusions of the screening: (Fill the below table responding to the below questions)

1. Indicate the proposed environmental and social risk ratings (Substantial, Moderate or Low), and provide justifications. For risks that are known in terms of (spatial influence, duration, intensity of risk, probability and significance) assess the risk rating based on the methodology in the comprehensive ES screening template.
2. Indicate the proposed environmental and social risk management requirements (responsibilities: PIU or contractor).

ESS	Risk rating (if identified)	Plans/measures
ESS1	Low to moderate	Example: ESMP (PIU)
ESS2	Low to moderate	Example: OHS plan (contractor)
ESS3	Low to moderate	Example: Waste Management Plan (Contractor), HWMP (contractor)
ESS4	Low to moderate	Example: Community Health and Safety Measures under ESMP (PIU) Traffic Management Plan (Contractor)
ESS5	Low	
ESS6	Low	

ESS8	Low	
ESS10	Low to moderate	
Overall Risk rating	**Low to moderate**	

Observations/Comments	
Signature of responsible ESS Specialist	
Approved by management Dep Rep/Section Chief	