
CONSULTING SERVICES FOR:

**Detailed Designs, Tender Documents and Supervision for the
Construction of Sludge Solar Dryers for Zahlé and Charqiyeh
Wastewater Treatment Plants**

(GC2C2c)

TERMS OF REFERENCE (TOR)

GATE

DATE: MAY 20, 2026

DRAFT V.0

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Terms of Reference

1. *Background*

The Republic of Lebanon (The Borrower) represented by the Council for Development and Reconstruction (CDR) will implement the Green, Agri-food Transformation for Economic Recovery (the “**GATE**” or “**Project**”), funded by the International Bank for Reconstruction and Development (IBRD or the World Bank or the Bank). The total project cost is Two Hundred Million United States Dollars (US\$ 200,000,000).

The Project is structured into five main components, each designed to strengthen the resilience of Lebanon’s agri-food sector and support farmers and SMEs.

Component 1: Climate Smart Investments in Agri-food Value Chains (US\$71 million):

The objective of this component is to provide access to finance to strengthen the resilience and improve the competitiveness of farmers and SMEs involved in agri-food value chains. The component will promote climate smart practices, create higher value addition, improve links between farmers, agribusinesses, and markets, and unlock diversification opportunities. The project will finance activities specifically designed to benefit women and seek to contribute to reducing some of the gender gaps identified in terms of access to finance, inputs, markets, technical capacity building activities, improved confidence and negotiation skills as well as addressing social norms through a carefully designed behaviorally informed outreach campaign, also targeting men.

Component 2: Climate-Smart Infrastructure and Services for Agri-Food Sector Development (US\$100 million):

The objective of this component is to restore service delivery, build operational capacity and ensure the sustainability and climate-resilience of public infrastructure underpinning the agri-food sector. It will be structured across two subcomponents: Subcomponent 2.1. Improving rural community infrastructure for agriculture; and 2.2. Restoring access and protecting agency-managed infrastructure and services underpinning agriculture.

Component 3: Improving the Enabling Environment and Restoring Support Services (US\$21 million)

The objective of this component is to restore and strengthen the capacity of sector institutions to support the recovery and transformation of the agri-food sector.

Component 4: Project and Knowledge Management (US\$8 million)

This component will support the coordination and management of the implementation of the project. It will finance overall project management, including inter alia: (a) coordination among different stakeholders; (b) monitoring and evaluation (M&E), including reporting climate benefits to the MoE to comply with the Paris Agreement reporting requirements; (c) project Environmental and Social Standards (ESS); (d) hiring of a gender specialist; (e) project fiduciary administration, internal controls, and audits; (f) communication and information activities, and (g) the establishment and maintenance of a grievance mechanism (GM) and a citizen's engagement mechanism. timely communication of results. This component will also finance a third-party monitoring (TPM) mechanism, as well as timely communication of results. In addition, the project will recruit a Service Provider (NGO) specialized in child labor prevention and response and who will be responsible for supporting the project in preventing, mitigating, monitoring, and responding to such risks during implementation. It will finance the development of an action plan to combat child labor and a roadmap to improve social protection for farmers.

Component 5: Contingent Emergency Response Component (CERC) (US\$0 million allocated initially)

This component will have zero funding allocation at the onset and will only be triggered in emergency circumstances; the project will support the preparation of a procedure manual governing the CERC operations.

Each component is designed to work together, ensuring a holistic approach to strengthening Lebanon's agri-food sector and supporting economic recovery.

Under Sub-Component 2.2, The Green, Agri-food Transformation for Economic Recovery (GATE) project is providing investments in wastewater management such as the implementation of sludge solar dryers aim to reduce the volume and moisture content of the sludge generated at the treatment plants, thereby improving sludge handling and management with the intention to improve pollution management and to generate potential agricultural benefits for surrounding agricultural activities.

The purpose of this TOR Terms of Reference (TOR) is to solicit the services of an engineering firm in order to meet the objectives stated below in the paragraph 2 - Objective(s) of the Assignment

This Terms of Reference (TOR) provide background information, define the general conditions, set the scope of work, describe the services required from the Consultant, and establish the contents of and the manner in which the Consultant's proposal shall be prepared.

2. Description

The wastewater treatment plants located in Zahlé and Charqiyeh are currently operational. These two facilities fall under the jurisdiction of their respective Water Establishments, which are responsible for their operation and maintenance.

Zahlé Wastewater Treatment Plant (WWTP):

The Zahlé Wastewater Treatment Plant (WWTP), located in the Bekaa region, serves the town of Zahlé and its surrounding areas. The plant was commissioned in October 2017 and has been operating continuously since that date. The facility provides tertiary-level treatment and has a maximum design capacity of 37,500 m³/day. In 2021, the average treated wastewater flow was approximately 20,000 m³/day. The WWTP is currently operated and maintained by the Bekaa Water Establishment.



Charqiyeh Wastewater Treatment Plant (WWTP):

The Charqiyeh Wastewater Treatment Plant (WWTP), located in the Nabatieh Governorate, serves several localities in the surrounding area. The plant was commissioned in 2007 and has been operating continuously since then. The facility was designed to treat an average flow of 10,570 m³/day and provides secondary-level treatment. At present, the plant treats an average flow of approximately 6,000 m³/day and operates under the direct supervision of the South Lebanon Water Establishment. The picture below displays the space intended for the implementation of the Sludge Solar Dryers. The allocated area is within the premises of the WWTP therefore falls under SLWE jurisdiction.



Given that sludge handling and removal activities may involve exposure to pathogens, toxic gases, and operational hazards associated with heavy equipment, the Consultant shall ensure that the ESMP includes a detailed Occupational Health and Safety (OHS) Management Plan. The OHS plan shall define, inter alia, personal protective equipment (PPE) requirements, confined space entry procedures, safe sludge handling protocols, emergency response procedures in case of gas exposure, and worker health monitoring measures, in accordance with national regulations and the World Bank Group Environmental, Health and Safety (EHS) Guidelines.

3. Objective(s) of the Assignment

The Consultant shall provide the Employer the following main services (Tasks) and documents:

- Task 1: Detailed Design, preparation of Tender Documents and Cost Estimate for the Construction of “**Sludge Solar Dryers for Zahlé and Charqiyeh Wastewater Treatment Plants**” (The Construction Works); and
- Task 2: Assistance in the Technical and Financial Evaluation of the Construction Works Bids, and preparation of the corresponding Technical and Financial Bid Evaluation Reports.
- Task 3: Thorough follow up during the construction phase by providing Supervision (Quality Control/Quality Assurance) services making sure proper implementation as per CDR construction requirements.

4. Scope of Services, Tasks and Expected Deliverables

Task 1: The consultant shall prepare fully detailed design and ready for construction shop drawings, for all the disciplines (Architectural, Civil, Structural, Mechanical, Electrical, Landscaping, Internal Access Roads, Infrastructure, etc.) needed to construct the “Sludge Solar Dryers for Zahlé and Charqiyeh Wastewater Treatment Plants” taking into consideration all technical and operational aspects including the treatment of the generated leachate from sludge during the drying process and the end-of-life management of the dried sludge.

Task 1.1: The Consultant shall be responsible for conducting an Environmental and Social Audit (ESA) for the existing wastewater treatment facilities at Zahlé and Charqiyeh WWTPs in order to assess current environmental and social conditions and identify any gaps with respect to national regulations and the World Bank Environmental and Social Framework (ESF).

It should be noted that an Environmental and Social Management Plan (ESMP) has previously been prepared for Zahlé WWTP. Accordingly, the Consultant shall review, update and align the existing ESMP for Zahlé WWTP with the requirements of the World Bank Environmental and Social Framework (ESF) and the World Bank Group Environmental, Health and Safety (EHS) Guidelines, and incorporate any additional mitigation, monitoring, and institutional measures required.

Based on the findings of the ESA for Charqiyeh WWTP, the Consultant shall prepare a Corrective Action Plan (CAP), where necessary, to address identified gaps.

The Consultant shall also develop the Environmental and Social Management Plan (ESMP) for Charqiyeh WWTP that translates the identified mitigation and corrective measures into specific, implementable actions to be carried out during the design, construction, operation, and decommissioning phases of the Project. The ESMP shall apply to the design, construction, operation, and decommissioning phases of the Project.

The ESA, CAP, and ESMP shall be consistent with:

- Lebanese environmental legislation and regulations
- World Bank Environmental and Social Framework (ESF)
- World Bank Group Environmental, Health and Safety (EHS) Guidelines

Task 1.2: The Consultant shall design the “**Sludge Solar Dryers**” for treating the sludge quantity produced in:

- Zahlé WWTP at the maximum capacity wastewater load of 37,500 m³/d (Stage 1), and
- Charqiyeh WWTP at the maximum capacity wastewater load of 10,570 m³/d.

The design should be realistic with local and regional market capacity considered.

It shall be noted that, at the construction phase, the Process of the Sludge Solar Dryers for Zahlé and Charqiyeh WWTPs shall be executed by an approved Specialized Sub-Contractor, for that effect, the Consultant shall conduct market assessment for specialized technology provider for sludge solar dryers.

Task 1.3: Preparation of Bill of Quantity and bidding documents for the accepted design. The bidding documents will be based on World Bank Procurement Standards, and will include appropriate rated criteria scoring mechanism. The qualification requirements will be considering the result of the stated market assessment.

Task 2: The consultant will support the Employer with launching the bidding, handling the pre-bid meeting, responding to clarification requests, amending the bidding documents as needed. After submission and opening of technical bids, the consultant assists the Employer by conducting technical evaluation as per the requirements of the bidding documents. Following technical evaluation, and invitation to financial opening, the consultant will support the Employer in responding to queries, debriefings and complaints as might be raised on the result of technical evaluation.

After Financial envelope opening, the consultant supports the client in combined evaluation as requested by the Employer. The consultant will support the Employer in responding to any queries, debriefings or complaints during standstill period after issuance of intention to award.

Task 3: The consultant shall be responsible for the supervision during the execution phase as the Supervision Engineer. The consultant/engineer shall fulfill Quality Control/Quality Assurance during the implementation phase and the defect liability period.

4.1 Detailed description of Tasks:

Task #1: Design Report for Each Solar Sludge Dryer related to each Wastewater Treatment Plant and One Compiled Tender Document

Task 1.1: The Consultant shall be responsible for conducting an Environmental and Social Audit (ESA) for the existing wastewater treatment facilities at Zahlé and Charqiyeh WWTPs in order to assess current environmental and social conditions and identify any gaps with respect to national regulations and the World Bank Environmental and Social Framework (ESF). Details are as per Annexes A and B.

Task 1.2: The Consultant shall prepare and submit to CDR for review, comments and/or approval, the Draft Design Report for each Wastewater Treatment Plant Sludge Solar Dryer which shall include, at least, the following main elements:

- Geotechnical assessment and topographic surveys (mobilization, data collection, drilling, boreholes, trial pits, soil laboratory testing, etc.); (Add details for Geotech Invest)
- Sludge analysis (add Number and Parameters);
- Design assumptions and criteria, and the design solutions;
- Description of all needed facilities and equipment;
- Codes and standards (local and international) pertaining to all disciplines;
- Design methodology and approach;
- Market Assessment for solar sludge dryer suppliers
- Design calculation notes;
- Testing and commissioning procedures;
- Operation and maintenance procedures;
- Training requirements for operation and maintenance services; and
- Recommended spare parts list.

The Consultant shall proceed with the finalization of Detailed Design.

Task 1.3: The Consultant shall prepare and submit to CDR, for review, comments and/or approval, one compiled Draft Tender Document consisting of Two Parts. Each part shall cover one Sludge Solar Dryer related to each Wastewater Treatment Plant, and shall include the specific detailed design, BoQ and Drawings. The Tender Documents shall include the following main elements:

- Volume 1: Bidding Procedures, Works Requirements, and Conditions of Contract and Contract Forms (in accordance with the latest version of the World Bank Standard Bidding Documents for Procurement of Works, based on the FIDIC Conditions of Contract for Construction (Red Book) for Works Designed by the Employer).
- Volume 2: Technical Specifications;
- Volume 3: Bill of Quantities;
- Volume 4: Tender Drawings (which shall include all necessary layouts, details, dimensions, distances, elevations, sections, equipment weight, etc.);

The Tender Documents shall include the following documents at the end of Volume 1:

- Appendix 1 - CDR Safety, Health and Environmental Regulations;
- Appendix 2 - VAT Mandate;
- Appendix 3 - Immediate Measures to Combat Corruption & Recover the Proceeds;
- Appendix 4 – CAP and Environmental and Social Management Plan (ESMP)

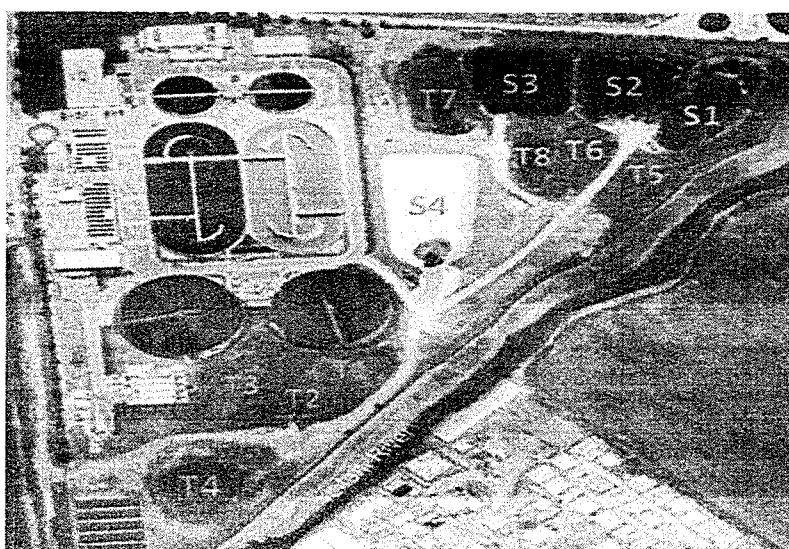
The Tender Document shall include a detailed scope of the construction works for each Wastewater Treatment Plant Solar Sludge Dryer, and shall comprise the elaboration of the following main works:

- Site mobilization;
- Topographical and Geotechnical Surveys;
- Sites clearance;
- Sites levelling;
- Construction of the Sludge Solar Dryer with all necessary earthworks, concrete works, steel works, glass covering, and electro-mechanical works;
- Erection of mechanical process system comprising sludge mixer/distributor, sludge conveying, sludge turner, ventilation, control, and all ancillaries and related works to provide 50% dry solid:
- Construction of the Control Room with all necessary earthworks, civil works, and electro-mechanical works;
- Erection of Control Room;
- Infrastructure networks (water, fire, storm and sewage);
- Electrical power network (MV power transmission line, transformer and medium voltage cells, diesel generator set with silencer canopy and related diesel tank, ATS panel, main distribution panel, etc.)
- Electrical and automation works (automation and control system, MCC panel, PLC panel, SCADA system and instrumentation, power and signal cables, cable trays and ducts, indoor and outdoor lighting, earthing, lightning arrester system, etc.)
- Integration of the SCADA system with the existing SCADA system in the WWTP;
- Landscaping, hardscaping, and internal roads inside WWTP;
- Testing and commissioning; and

- Training Employer's staff.
- 1 year Operation and Maintenance

Special Requirements Regarding Zahlé WWTP

- The area available for the dryers is limited to the existing unoccupied area and to the area currently occupied by the sludge storage areas (T1 to T4) located at the southern end of the site, and is around 5,000 m² excluding the landscaping and access road areas.
- The Scope shall also include:
 - o Removal of temporary sludge cells, T1 to T4 at South, and T5 to T8 at North-East (refer to map hereinafter)
 - o Relocation of PV panels and erection of additional supports;



Final Design Reports, and Cost Estimates for Each Wastewater Treatment Plant Sludge Solar Dryer and Final Tender Document

The Consultant shall respond to the comments on the Draft Design Reports for Each Wastewater Treatment Plant Sludge Solar Dryer and the Draft Tender Document. Nevertheless, the Consultant shall amend and revise the Design Reports, and the Detailed Designs and Tender Document to incorporate and comply with the comments provided by CDR.

The Consultant shall prepare and submit to CDR for approval, the Final Design Report, , and the Cost Estimate (Priced Bill of Quantities) for each Wastewater Treatment Plant, and the compiled Final Tender Document.

Task #2: Technical Support and Assistance to CDR during Tendering period of the Construction Works for Each Wastewater Treatment Plant Sludge Solar Dryer, and Technical and Financial Evaluations of Contractors Bids

Since the construction of the Sludge Solar Dryers for each Wastewater Treatment Plant will be awarded under a single contract, the Consultant shall provide CDR, prior to Bid Submission Date (BSD), with responses to any Clarification Requests raised by the Prospective Bidders.

The Consultant shall, on the Bid Submission Date (BSD) of the Sludge Dryers Construction Works for each Wastewater Treatment Plant Sludge Solar Dryer and prior to Bid Opening, submit to CDR an updated Cost Estimate.

The Consultant shall assist CDR in the Evaluation of the Sludge Dryers Construction Works Bids for each Wastewater Treatment Plant Sludge Solar Dryer, and shall prepare and submit to CDR for review, comments and/or approval, Draft Technical and Financial Bid Evaluation Reports.

The Consultant shall respond to the comments on the above-mentioned Draft Evaluation Reports that might be provided by CDR.

The Consultant shall amend and revise the Technical and Financial Bid Evaluation Reports to incorporate and comply with the comments provided by CDR, and shall submit to CDR for approval, the Final Technical and Financial Bid Evaluation Reports.

Task #3: Supervision on Construction Works for Each Wastewater Treatment Plant's Sludge Solar Dryer

The Consultant shall provide professional supervision of all construction activities to ensure that the works are executed in accordance with the approved designs, technical specifications, ESMPs, and contract conditions.

Pre-Construction Phase:

- Review and approve contractors' work programs, schedules, and quality control/quality assurance plans.
- Review and approve materials, samples, and shop drawings prior to execution.
- Conduct pre-construction meetings with contractors, concerned Regional Water Establishments (RWEs), and CDR to confirm roles, responsibilities, and coordination protocols.
- Ensure contractors have mobilized required personnel, equipment, and safety provisions before commencing works, and review the C-ESMP prepared by the Contractor, including the Occupational Health and Safety (OHS) management plans.

Construction Supervision Phase:

- Provide adequate-time supervision on-site through qualified engineers and inspectors. Ensure works are executed according to approved drawings, BOQs, and technical specifications.
- Conduct regular site inspections and document progress, quality, and safety conditions.
- Approve or reject materials, work quality and construction methods as per specifications.
- Certify interim payment certificates based on measured quantities and verified progress and submitted to CDR for final approval.
- Ensure implementation of Environmental and Social Management Plans (ESMPs) and OHS requirements and report on E&S implementation monitoring on a monthly basis and on incidents and accidents.
- Review and document any variation orders, providing justifications and cost/time implications.

- Coordinate testing of materials (soil, concrete, steel, irrigation pipes) in accredited laboratories.
- Maintain photographic records and daily site logs.
- Introduce performance indicators (e.g., crop yield increase, water productivity, energy efficiency).

Post-Construction and Handover Phase

- Inspect completed works and prepare snag lists for correction by the contractor.
- Verify that all defects have been rectified prior to provisional acceptance.
- Review and approve as-built drawings, O&M manuals, and training reports.
- Facilitate final inspection and handover of Solar Sludge Dryers to concerned RWEs.
- Issue a Final Completion Report summarizing works performed, key challenges, and recommendations.
- Supervision related to the Operation and Maintenance of the Solar Sludge Dryers.

Defects Liability Period (DLP) Supervision

- Conduct periodic inspections and E&S management on a quarterly basis during the DLP to ensure defects are rectified promptly.
- Provide certification for final acceptance and closure of the contract.

Reporting

Prepare and submit the following reports:

- Monthly Progress Reports (physical and financial progress, Environmental and Social (E&S) implementation reporting in accordance with the ESCP, key issues identified, and corrective measures undertaken). Quarterly-Summary Reports for CDR & concerned RWEs
- Reporting on Training Monitoring (training manuals, attendance sheets, photos, and evidence of capacity-building delivered to farmers by contractors)
- Monitoring & Evaluation (M&E) Report (with indicators for productivity, system performance, etc...).
- Post-Handover Follow-Up Report (assessing sustainability and continued functionality of rehabilitated systems)
- Final Completion Project Report (Including As-Built Drawings, commissioning reports, operation & maintenance manuals for beneficiaries, and a synthesis of key challenges, lessons learned, and recommendations for future Solar Sludge Dryers Implementation)
- Defects Liability Closure Report at the end of DLP.

4.2 Environmental and Social Framework

The Task also includes Environmental and Social safeguard for the designated Sludge Solar Dryers. The Consultant shall ensure full compliance of all designs, activities, and construction supervision with the World Bank's Environmental and Social Framework (ESF) and national environmental and labor regulations. Reports will be reviewed by CDR/PCU Environmental and Social Specialists. Tasks include:

- Review the GATE Project's Environmental and Social Management Framework (ESMF).
- Prepare an Environmental and Social Audit (ESA) for the existing WWTP facilities and, based on its findings, upgrade the existing ESMP for Zahlé WWTP and prepare the ESMP for Charqiyeh WWTP in accordance with the World Bank Environmental and Social Framework (ESF).

- The Consultant shall assess potential odor emissions associated with sludge drying operations and incorporate appropriate odor management measures within the design and operational procedures of the sludge solar dryers in accordance with the World Bank Group Environmental, Health and Safety (EHS) Guidelines.
- The Consultant shall also assess and specify the final disposal or reuse pathway for the dried sludge once the target dry solids content is achieved. Where agricultural reuse is considered feasible, the Consultant shall ensure that the proposed reuse complies with relevant Lebanese regulations and the sludge reuse standards being developed under the GATE Project, as well as applicable World Bank Group EHS Guidelines.
- Ensure compliance with Environmental and Social Standards (ESS), including groundwater sustainability, waste management of damaged structures, and safe disposal of old plastic cladding.
- Define mitigation measures for noise, dust, waste management, soil and water contamination, occupational health and safety (OHS), and community health and safety.
- Assess potential risks (e.g., land disputes, community conflicts over water allocation) and propose practical mitigation and monitoring actions.
- Ensure occupational health and safety (OHS) plans for workers during construction and safe working practices for construction, installation, scaffolding, welding, and material handling. Include requirements for personal protective equipment (PPE) and emergency procedures.
- Ensure equitable inclusion of women in consultations, trainings and project benefits.
- Hold focused stakeholder consultations with relevant stakeholders in accordance with the project's Stakeholder Engagement Plan (SEP), document feedback received, and integrate key concerns into the ESMP. Integrate E&S requirements into design, tender, and supervision documents to ensure implementation and monitoring during works.
- Support CDR and concerned RWEs in implementing a local-level GRM linked to the central PCU system, ensuring accessibility and confidentiality.
- Record and monitor grievances, suggestions and feedback related to environmental and social issues, ensuring timely resolution.
- Environmental and Social Audit (ESA) Report: Assessment of the existing environmental and social conditions of Zahlé and Charqiyeh WWTPs, including identification of gaps with national legislation, the World Bank Environmental and Social Framework (ESF), and the World Bank Group Environmental, Health and Safety (EHS) Guidelines.
- Corrective Action Plan (CAP): Identification of required corrective and improvement measures based on the findings of the ESA, including responsibilities, timelines, and implementation arrangements to address identified gaps
- Updated Environmental and Social Management Plan (ESMP) for Zahlé WWTP and ESMP for Charqiyeh WWTP: Including mitigation measures, monitoring arrangements, institutional responsibilities, occupational health and safety requirements, stakeholder engagement arrangements, and environmental and social management procedures in accordance with Lebanese legislation, the World Bank Environmental and Social Framework (ESF), and the World Bank Group Environmental, Health and Safety (EHS) Guidelines, including mitigation measures, monitoring arrangements, institutional responsibilities, occupational health and safety requirements, stakeholder engagement arrangements, and environmental and social management procedures in accordance with Lebanese legislation, the World Bank Environmental and Social Framework (ESF), and the World Bank Group Environmental, Health and Safety (EHS) Guidelines.

5. Team Composition & Qualification Requirements

The Consultant shall ensure that his staff attend to her/his duties during the implementation of the services.

The CVs of the Consultant's key experts mentioned hereinafter should be included with the Consultant's proposal.

The principal duties and qualifications for the Consultant's Key-experts [K] during the design and Bid Evaluation phase are:

- [K-1] Design Manager (Team Leader):
University degree in Civil Engineering. Membership in an appropriate professional body, such as the Order of Engineers and Architects in Lebanon (for nationals of Lebanon). Minimum 15 years of experience since graduation including at least 10 years specifically in the design of water and wastewater treatment plants, service buildings, warehouses and related infrastructure. Proficient in English language.
- [K-2] Process Design Engineer:
University degree in Civil Engineering. Membership in an appropriate professional body, such as the Order of Engineers and Architects in Lebanon (for nationals of Lebanon). Minimum 10 years of experience since graduation with at least 7 years in the design of Wastewater treatment solution and Sludge Treatment. Proficient in English language.
- [K-3] Mechanical Engineer:
University degree in Mechanical Engineering. Membership in an appropriate professional body, such as the Order of Engineers and Architects in Lebanon (for nationals of Lebanon). Minimum 10 years of experience since graduation with at least 7 years in the design of buildings and/or plants. Proficient in English language.
- [K-4] Electrical Engineer:
University degree in Electrical Engineering. Membership in an appropriate professional body, such as the Order of Engineers and Architects in Lebanon (for nationals of Lebanon). Minimum 10 years of experience since graduation with at least 7 years in the design of buildings and/or plants. Proficient in English language.
- [K-5] Environmental and Social Specialist:
University Degree in Environmental Science, Environmental Engineering, or a related field. Minimum 7–8 years of professional experience in similar assignments, with demonstrated experience in wastewater treatment or sludge management projects. The Specialist shall have proven familiarity with the World Bank Environmental and Social Framework (ESF) and relevant Environmental and Social Standards (ESS), in addition to knowledge of Lebanese environmental legislation and regulatory requirements.

- [K-6] Surveyor:
Academic or Technical Degree in Surveying. Membership in an appropriate professional body, such as the Order of Topographic Surveyors in Lebanon (for nationals of Lebanon). Minimum 5 years of experience since graduation in topographic surveying.

The principal duties and qualifications for the Consultant's Supervision Key-experts [SK] during the construction supervision phase are:

- [SK-1] Resident Project Manager:
University degree in Engineering (Civil, Mechanical or any relevant discipline). Membership in an appropriate professional body. 15 years of experience since graduation with at least 10 years in similar assignments. Proficient in English language (Knowledge of Arabic is a plus).
- [SK-2] Site Engineers:
University degree in Engineering (Civil, Mechanical or any relevant discipline). Membership in an appropriate professional body (for nationals of Lebanon). 10 years of experience since graduation with at least 5 years in similar assignments. Proficient in English language (Knowledge of Arabic is a plus).
- [SK-3] Senior Site Inspectors:
Technical diploma in Civil, Mechanical or Agricultural Engineering, or Agronomy or any relevant discipline. 5 years of experience in similar and or relevant assignments. Proficient in English and Arabic languages. One of the 2 site inspectors must have at least 5-year experience in health and safety aspects.
- [SK-4] Environmental and Social Specialist:
University Degree in Environmental Science, Environmental Engineering, or a related field. Minimum 7–8 years of professional experience in similar assignments, with demonstrated experience in wastewater treatment or sludge management projects. The Specialist shall have proven familiarity with the World Bank Environmental and Social Framework (ESF) and relevant Environmental and Social Standards (ESS), in addition to knowledge of Lebanese environmental legislation and regulatory requirements.
- [SK-5] Surveyor:
Academic or Technical Degree in Surveying. Membership in an appropriate professional body, such as the Order of Topographic Surveyors in Lebanon (for nationals of Lebanon). Minimum 5 years of experience since graduation in topographic surveying.

6. Reporting Requirements and Time Schedule for Deliverables

The Commencement Date is the Notification Date (ND) of the Contract.

The estimated time allocated for Detailed Design, Tender Documents and Environmental Assessment Shall not exceed 5 months.

The estimated time for construction excluding the Defects Liability Period shall not exceed 12 months.

The Consultant shall complete the assignment within the following milestones:

- Task #1: 17 weeks from Contract Notification Date.
- Task #2: From the date CDR launches the Tender related to the Construction of Sludge Solar Dryer for Zahlé WWTP or for Charqiyeh WWTP, until award of construction contract.

The Consultant shall provide the Client the following deliverables for each Wastewater Treatment Plant Sludge Solar Dryer, within the deadlines specified below. The consultant shall provide monthly progress report during Task number 1 and 2.

- Task #1: 17 weeks from Contract Notification Date. *Each Wastewater Treatment Plant Sludge Solar Dryer shall have its own design and cost estimate deliverables*

Deliverable [D]	Time for Completion
[D-1a] Draft Design Reports (2 hard copies, 1 editable soft copy, and 1 pdf soft copy)	ND + 12 weeks
[D-1b] Draft Cost Estimates of the Construction Works (2 hard copies, 1 editable soft copy, and 1 pdf soft copy)	ND + 12 weeks
[D-1c] Draft Tender Document (2 hard copies, 1 editable soft copy, and 1 pdf soft copy)	ND + 12 weeks
Review and Comment by CDR	2 weeks
[D-2a] Final Design Reports (2 hard copies, 1 editable soft copy, and 1 pdf soft copy)	ND + 17 weeks
[D-2b] Cost Estimates of the Construction Works (2 hard copies, 1 editable soft copy, and 1 pdf soft copy)	ND + 17 weeks
[D-2c] Final Tender Document (10 hard copies, 1 editable soft copy, and 10 soft copies on 10 CDs in pdf format with the Bill of Quantities in Protected Excel format)	ND + 17 weeks
Acceptance by CDR	2 weeks

- Task #2: From the date CDR launches the Tender related to the Construction of Sludge Solar Dryer for Zahlé WWTP or for Charqiyeh WWTP, until award.

[D-3a] Providing CDR with answers to the Clarifications Requests raised by the Prospective Bidders as might as might be requested, prior to Bid Submission Date (BSD) of the Construction Works	Up to 4 weeks prior to BSD
[D-3b] Updated Cost Estimate prior to Bid Opening of Construction Works (1 hard copy)	BSD
[D-3c] Draft Technical Evaluation Reports (2 hard copies, 1 editable soft copy, and 1 pdf soft copy)	BSD + 2 weeks
Review and Comment by CDR	1 week
[D-3d] Final Technical and Financial Bid Evaluation Reports (2 hard copies, 1 editable soft copy, and 1 pdf soft copy)	BSD + 4 weeks
Acceptance by CDR	2 weeks

- Environmental and Social safeguard for the designated Sludge Solar Dryers. *Each Wastewater Treatment Plant Sludge Solar Dryer shall have its own deliverables*

[D-4a] Draft Environmental and Social Audit Report and Draft Corrective Action Plan (CAP) (2 hard copies, 1 editable soft copy, and 1 pdf soft copy)	ND + 2 weeks
Review and Comment by CDR & WB	14 Days
[D-4b] Final Environmental and Social Audit Report and Final Corrective Action Plan (CAP) (2 hard copies, 1 editable soft copy, and 1 pdf soft copy)	ND + 7 weeks
Acceptance by CDR & WB	1 Days
[D-4c] Draft Environmental and Social Management Plan Report (2 hard copies, 1 editable soft copy, and 1 pdf soft copy)	ND + 10 weeks
Review and Comment by CDR & WB	14 Days
[D-4d] Final Environmental and Social Management Plan Report (2 hard copies, 1 editable soft copy, and 1 pdf soft copy)	ND + 17 weeks
Review and Comment by CDR & WB	14 Days

- Task #3: Supervision on Construction Works for Each Wastewater Treatment Plant's Sludge Solar Dryer from the Construction Commencement Notice Date (CCND). *Each Wastewater Treatment Plant Sludge Solar Dryer shall have its own deliverables*

[D-5a] Monthly Progress Reports (2 hard copies, 1 editable soft copy, and 1 pdf soft copy)	5 days from the End of Each Month
[D-5b] Quarterly Summary Reports for CDR and concerned RWEs (2 hard copies, 1 editable soft copy, and 1 pdf soft copy)	5 days from the End of Each Quarter

[D-5c] Reporting on Training Monitoring (2 hard copies, 1 editable soft copy, and 1 pdf soft copy)	5 days after training completion
[D-5d] Monitoring & Evaluation (M&E) Report (2 hard copies, 1 editable soft copy, and 1 pdf soft copy)	2 months from the handing over
[D-5e] Post-Handover Follow-Up Report (2 hard copies, 1 editable soft copy, and 1 pdf soft copy)	2 months from the handing over
[D-5f] Final Completion Project Report (2 hard copies, 1 editable soft copy, and 1 pdf soft copy)	10 Days from the project final completion
Review and Comment by CDR	7 Days
[D-5g] Defects Liability Closure Report at the end of DLP (2 hard copies, 1 editable soft copy, and 1 pdf soft copy)	5 Days from the end of the DLP
Approval by CDR	14 Days

7. Consultant's Input and Counterpart Personnel

The Consultant is responsible to provide all needed personnel, and services, facilities, equipment and logistics required to carry out the assignment.

8. Terms of Payment

CDR will process the payments to the Consultant in accordance with the below terms:

Part I - Tasks 1 & 2 - Payment Due during Design Phase and Bid Evaluation Services (Lump Sum)	% of Part (I) Fees
For Sludge Solar Dryers at Zahlé WWTP	
Upon Acceptance by CDR:	
• [D-1 a,b,c] Draft Design Report, Draft Detailed Design and Draft Cost Estimate	15%
• [D-4d] Final Environmental and Social Management Plan Report	10%
For Sludge Solar Dryers at Charqieh WWTP	
Upon Acceptance by CDR:	
• [D-1 a,b,c] Draft Design Report, Draft Detailed Design and Draft Cost Estimate	15%
• [D-4d] Final Environmental and Social Management Plan Report	10%
• [D-2 a,b,c] Final Design and Final Tender Document	40%
• [D-3d] Final Technical and Financial Bid Evaluation Report	10%

Part II - Task 3: Payment Due during Supervision Services is Time Base		
SK.#	Position	Time Input in Person/month
	Key Experts	
SK.1	Project Manager	12
SK.2	Site Engineer (Zahle WWTP)	12
SK.2	Site Engineer (Charqieh WWTP)	12
SK.3	Senior Site Inspector (Zahle WWTP)	12
SK.3	Senior Site Inspector (Charqieh WWTP)	12
SK.4	Environmental & Social Specialist for 2 WWTPs	3
SK.5	Surveyor for both WWTPs	2
SK.6	Draftsperson for both WWTPs	2
	Defect Liability Period	
SK.1	Project Manager	1
SK.2	Site Engineer	1
SK.3	Senior Site Inspector (Zahle WWTP)	1
SK.3	Senior Site Inspector (Charqieh WWTP)	1

The Consultant shall be responsible for providing, at its own cost, all personnel, staff, services, facilities, equipment, and logistics required for the proper execution of the assignment. All related costs shall be deemed included in the Consultant's overheads and Contract Price, and no separate payment shall be made by the Employer for such items.

TYPE OF SERVICES	FEES (USD)
Part (I) - Design Phase and Bid Evaluation Services	
Part (II) - Supervision Services	
Total (Excluding VAT & Local Taxes)	

ANNEX A - Environmental Audit

I. Main Objectives of the Environmental Audit

The main objectives of the Environmental Audit are to:

- Assess the Project's compliance with applicable national environmental laws, regulations, permits, and approval conditions.
- Verify conformity with relevant international standards and guidelines, including World Bank ESSs and EHS Guidelines, where applicable.
- Evaluate the effectiveness of existing environmental and social management measures and monitoring systems.
- Identify actual and potential environmental and social risks, impacts, and non-compliances associated with the Project's activities.
- Assess occupational health and safety practices and environmental risk control measures.
- Recommend corrective actions, mitigation measures, and improvements to enhance environmental performance and regulatory compliance.
- Provide a basis for informed decision-making by the Contracting Authority and relevant stakeholders.

II. Scope of Work of the Environmental Audit

- The scope of work of the Environmental Audit shall include, but not be limited to, the following tasks:
- Review of relevant project documentation, including permits, licenses, environmental approvals, previous ESIA/EIA reports, environmental management plans, and monitoring reports.
- Review of applicable national legislation, regulations, ministerial decisions, and international standards relevant to the Project.
- Site inspections and visual assessments of facilities, operations, and surrounding areas.
- Assessment of environmental aspects such as:
 - Air emissions and air quality
 - Noise and vibration
 - Water consumption, wastewater generation, and discharge
 - Solid and hazardous waste management
 - Soil and groundwater contamination risks
 - Use of natural resources and energy
- Review of occupational health and safety conditions and practices.
- Evaluation of environmental and social management systems, procedures, and institutional arrangements.
- Identification of environmental and social risks, impacts, and non-compliances.
- Consultation, as appropriate, with project staff and relevant stakeholders.
- Development of corrective action plans and recommendations.

III. Methodology

The Environmental Audit shall be conducted using a systematic and structured methodology, which shall include:

- Desktop review of all relevant project documentation and regulatory requirements.
- Development of audit checklists based on national legislation, permit conditions, and applicable international standards.
- Site visits and inspections to verify actual conditions and practices against documented procedures.
- Interviews and discussions with project management, staff, and contractors, as needed.
- Identification and classification of non-compliances, risks, and gaps.
- Evaluation of the significance of identified environmental and social issues.
- Preparation of recommendations, mitigation measures, and corrective action plans with clear responsibilities and timelines.

IV. Deliverables of Activity

The Consultant shall deliver the following reports:

- | | |
|---------|---|
| [EA-D1] | Inception Report: Outline of the methodology and work plan. |
| [EA-D2] | Draft Environmental Audit Report |
| [EA-D3] | Final Environmental Audit Report. |

ANNEX B - Environmental and Social Management Plan

The ESMP shall encompass a brief project description, biophysical and socioeconomic environmental settings, major positive and negative environmental and social risks and impacts, the proposed environmental and social management and monitoring activities, and how these measures will be integrated into project monitoring, supervision, and bid documents. The ESMP should also describe proposed measures, methods, and actions to facilitate public consultation. Moreover, the ESMP shall also encompass institutional arrangement and responsibilities, capacity development and gaps, and costs required for each mitigation and management measure, which overall the needs for the implementation of the ESMP. The ESMP must identify linkages to other social and environmental safeguard instruments related to the project, such as workers issues, health and safety, etc.

Given the scale and nature of the project and the significance of the potential anticipated impacts and risks, the ESMP shall be prepared in a format suitable for inclusion as technical specifications in a contract, if applicable and required. ESMPs should be finalized and approved after considering comments from the relevant organizations at all levels. This process ensures that all voices are heard and respected in the development of the ESMP. Important basic elements that constitute an ESMP, but are not limited to, are briefly described below:

i) Executive Summary: A comprehensive and narrative-consistent executive summary (ES) that comprises all section descriptions of the main body shall be written prior to presenting the main body of the ESMP. This detailed summary will provide a clear overview of the ESMP's content, ensuring the reader is well-prepared for the detailed information that follows. The executive summary shall be translated to Arabic.

ii) Introduction: Briefly describe the background of the subproject, including the subproject site description and location maps. It shall also capture the subproject intervention area, objectives, scope of ESMP, approach and methodology for ESMP preparation, etc.

iii) Description of the Subproject: The ESMP concisely describes components of the project and proposed subproject activities, which will involve the construction and rehabilitation of existing project activities and the scope of works. This section mainly captures a detailed description of the scale, nature, and type of subprojects implemented under the proposed project. This helps the reader understand the context and scope of the projects.

iv) Description of Project implementation area (Baseline information): The Biophysical, and Socioeconomic environmental setting of the specific subproject implementation area will be presented under this section. (This should cover the environmental and social profile of the project area within the context of each of the respective subproject components, including but not limited to topography, transport infrastructure, social infrastructures, existing potential environmental and social vulnerabilities/conditions (floods and landslides) of the project area, The physical environment; climate; geology and soil; land use and land cover; water resources; wetlands: Biological environment: flora, fauna, bird biodiversity, key biodiversity areas: Socioeconomic environment: population; housing; household income and livelihoods; land tenure; social service institutions; water supply; natural hazards, etc.).

v) Policy, Legal, and Institutional Frameworks: Brief reference to Lebanon's Policy and legal framework relevant to environmental and social management and how the projects ensure compliance with these policies and legal frameworks. In addition, a brief description of relevant institutional arrangements applicable to the design and implementation of the proposed project.

This section shall also cover relevant National and regional legislation and regulatory framework, the World Bank Environmental and Social Framework, and their gap analysis. The institutional framework shall capture at all levels, including districts and even below at sector level, if applicable.

vi) Public Consultation: The key stakeholders identified and consulted in the area include leaders in the communities, individual people who own properties that will be directly or indirectly affected, and business owners along the subproject corridors and within the direct and indirect influence area, as well as subproject core and ancillary facilities are, etc. At the meeting, an overview of the proposed project and appreciation of ESMP will be presented. Furthermore, the challenges that could impede the implementation of the project and the support needed from all parties to ensure an effective project and successful implementation will also be discussed with the stakeholders. A summary of the issues and/or comments raised by the various stakeholders and how the issues are addressed at the meetings or by the Project are highlighted in this chapter. These issues, concerns, fears, and expectations arise from the participants, and a response provided to the respective issues shall be presented in a clear table format by segregating in date of consultation, groups of participants/consulted individuals, sex, etc.

vii) Identification and analysis of environmental and social risks and Impacts:

Predicted positive and adverse environmental and social impacts and risks (and any uncertainties about their effects) for which enhancement, mitigation, and management measures are necessary should be identified and summarized under this section. This section shall also focus on covering the assessment of the magnitude of potential environmental and social impacts and risks at every stage of the subproject, from the subproject siting/planning/design/preconstruction, construction, during the operational stage for all project components and sub-components, and finally decommissioning phase of each subproject captured in this ESMP.

viii) Description of Enhancement, Management, and Mitigation Measures: Each measure should be briefly described in relation to the positive and negative impact(s) and conditions under which it is required. These should be accompanied by and/or referenced to designs, development activities, operating procedures, and implementation responsibilities. Proposed measures and actions to facilitate public consultations should be clearly described and justified. Feasible and cost-effective measures to minimize adverse impacts to acceptable levels should be specified with reference to each impact identified. Further, this section of the ESMP should provide details of the conditions under which management and enhancement measures should be implemented. The ESMP should also indicate the various practicable measures applicable to the proposed subprojects at each project phase (design, construction, operation, decommissioning). Efforts should also be made to mainstream environmental and social safeguards, as well as health and safety aspects, wherever possible. For each potential anticipated and/or identified subproject risk and impact, corresponding enhancement and mitigation measures with the responsible party and indicative cost for implementation shall be presented. In addition, for each potential environmental and social impact, there can be more than one mitigation and enhancement measure. Responsibility for implementing mitigation measures will typically rest with the contractor, client, or beneficiary during the construction and operation of the proposed project.

ix) Description of monitoring program: The ESMP identifies monitoring objectives and specifies the type of monitoring required; it also describes performance indicators that provide linkages between impacts and mitigation measures identified, parameters to be measured (for

example, national standards, the extent of impact area to be considered, etc.), methods to be used, sampling location and frequency of measurements, and definition of thresholds to signal the need for corrective actions. The Bank and the borrower should agree upon monitoring and supervision arrangements to ensure timely detection of conditions requiring remedial measures in keeping with best practice; provide information and the progress and results of mitigation and institutional strengthening measures; and assess compliance with National and World Bank environmental and Social Framework ESSs and WBG EHS guideline. The monitoring section of the ESMP prescribes indicators for monitoring the environmental and social impact and the effects of mitigation measures. The responsibility for this will typically rest with the Contractor, Employer, Institution in charge of environmental compliance, Local administration, etc. For each potential monitoring activity, a responsible party and indicative cost for implementation monitoring activities shall be presented.

x) Institutional Roles, Responsibilities, and Arrangements: Institutions responsible for implementing enhancement, management, and mitigation measures, as well as monitoring their performance, with the respective individual party, people, organization roles, and responsibilities, should be clearly identified and presented under this section. Where necessary, mechanisms for institutional coordination should be identified, as often monitoring tends to involve more than one institution. This is especially important for subprojects requiring cross-sectoral integration. In particular, the ESMP specifies who is responsible for undertaking the mitigation and monitoring measures, e.g., for enforcement of remedial actions, monitoring of implementation, training, financing, and reporting. Institutional arrangements should also be crafted to maintain support for agreed enforcement measures for environmental protection. Where necessary, the ESMP should propose strengthening the relevant agencies through such actions as the establishment of appropriate organizational arrangements and the appointment of key staff and consultants. There may be a need to train people to carry out these responsibilities and to provide them with equipment and supplies.

xi) Capacity Development and Training: To support the timely and effective implementation of environmental and social subproject components/activities and mitigation measures, the ESMP draws on the environmental and social assessment of the existence, role, and capability of responsible parties on-site or at the agency and ministry level. Specifically, the ESMP provides a specific description of institutional arrangements, identifying which party is responsible for carrying out the mitigation and monitoring measures (e.g., for operation, supervision, enforcement, monitoring of implementation, remedial action, financing, reporting, and staff training).

xii) Implementing schedules: The timing, frequency, and duration of mitigation and enhancement measures and monitoring should be included in an implementation schedule, showing phasing and coordination with procedures in the overall subproject implementation plans and phases, including preconstruction, construction, operation, and decommissioning. Linkages should be specified where the implementation of mitigation measures is tied to institutional strengthening and the Project legal agreements, e.g., as conditions for loan effectiveness or disbursement.

xiii) Reporting procedures: Feedback mechanisms to inform the relevant parties on the progress and effectiveness of the mitigation measures and monitoring itself should be specified. Guidelines on the type of information required and the presentation of feedback information should also be highlighted.

xiv) Cost estimates and sources of funds: Implementation of mitigation measures mentioned in the ESMP will involve an initial investment cost as well as recurrent costs. The ESMP should include cost estimates in the subproject design, bidding, and contract documents to ensure that the contractors will comply with the mitigation and monitoring measures. The costs for implementing the ESMP will be included in the sub-project design, as well as in the bidding and contract documents. It is important to capture all costs, including administrative, design, consultancy, and operational and maintenance costs, which will result from meeting required standards or modifying project design. These figures shall also be captured in the total subproject cost tables.

xv) Integration of ESMP with Subproject: Clearly specify each of the measures and actions to be implemented, including the individual mitigation and monitoring measures and actions and the institutional responsibilities relating to each, and the costs will be integrated into the subproject's overall planning, design, budget, & implementation. To ensure unique identification and to accommodate changes in administrative borders or names, the ESMP further requires entering the GPS coordinates of the location, if applicable.

ANNEX C - Environmental Audit Suggested Outline

The Environmental Audit Report shall include, at a minimum, the following sections:

I. Executive Summary

- Key findings, major non-compliances, and main recommendations.

II. Introduction

- Background, purpose, and objectives of the audit.

III. Project Description

- Overview of project activities, location, and operational status.

IV. Legal and Institutional Framework

- Applicable national legislation, permits, and international standards.

V. Audit Methodology

- Approach, tools, site visits, and data sources.

VI. Environmental and Social Baseline Overview

- Relevant baseline conditions, as applicable.

VII. Audit Findings

- Compliance assessment by environmental aspect (air, water, waste, noise, etc.).
- Occupational health and safety assessment.
- Institutional and management system review.

VIII. Non-Compliances and Gaps

- Identification and classification of non-compliances and risks.

IX. Impact and Risk Assessment

- Evaluation of significance and potential consequences.

X. Mitigation Measures and Corrective Actions

- Recommended actions, responsibilities, and timelines.

XI. Environmental and Social Management Improvements

- Recommendations for strengthening systems and procedures.

XII. Conclusions

XIII. Annexes

ANNEX D - Stand-Alone ESMP Suggested Outline

1. Executive Summary

A concise, non-technical summary of the Project, its key environmental and social risks and impacts, and the main mitigation and monitoring measures.

2. Introduction

- Purpose and objectives of the ESMP.
- Scope of the ESMP and applicable project phases.
- Reference to the ESIA and/or ESMF, as applicable.

3. Project Description

- Brief Project overview: Scope, location, and key activities.
- Summary of key risks: A high-level recap of the most significant E&S risks (e.g., leachate management, labor influx, biodiversity loss...).
- Brief description of the surrounding environmental and social conditions to provide context for the identified risks and impacts, including physical, biological, and socio-economic aspects, as applicable.

4. Policy, Legal, and Institutional Framework

- National Requirements: Relevant local laws and permits.
- World Bank ESS Alignment: Mapping the project to ESS1 through ESS10.
- Institutional Roles: Identification of the Project Management Unit (PMU), contractors, and regulatory oversight agencies.

5. Environmental and Social Mitigation Plan

This is the core of the ESMP. It is typically presented as a table covering:

- Project Phase: (Pre-construction, Construction, Operation, Decommissioning/Closure).
- Impact/Risk: The specific issue being addressed.
- Mitigation measure
- Responsibility: Who implements the measure (e.g., Contractor) and who supervises (e.g., Consultant/PMU).
- Costing: Estimated budget for the measure.

6. Environmental and Social Monitoring Plan

A structured program to verify that mitigation measures are working:

- Parameters: What is being measured.
- Location: Specific points or site areas.
- Frequency: Daily, weekly, monthly, or quarterly.
- Thresholds: National standards or WB EHS Guidelines (whichever is more stringent).
- Responsibility: Entity in charge of data collection and reporting.

7. Capacity Development & Training

- Institutional Assessment: Gaps in the Borrower's ability to implement the ESMP.
- Training Program: Specific sessions for staff and contractors (e.g., SEA/SH awareness, waste handling, spill response).
- Resource Allocation: Equipment, vehicles, or software needed for monitoring.

8. Stakeholder Engagement & Grievance Mechanism (GM)

- Ongoing Engagement: Summary of the Stakeholder Engagement Plan (SEP) for the implementation phase.
- Grievance Redress: Detailed steps for receiving, investigating, and closing complaints.
- SEA/SH Referral Pathways: Specialized, confidential handling of sensitive social complaints.

9. Implementation Schedule & Budget

- Timeline: Integrating E&S tasks into the overall project construction schedule.
- Total Budget: Consolidating all mitigation, monitoring, training, and consultancy costs into a single table.

10. Conclusion**11. Annexes**