



**West Bank and Gaza Integrated Solid Waste Management Project – Phase 1
(ISWMP – 1)**

**Terms of Reference
Consultancy Services for:
“Preparation of the Hazardous Waste Management Plan
in the West Bank”**

GZ-MDLF-495913-CS-QCBS

1. Background

West Bank and Gaza face unique challenges in managing and protecting the environment and public health, largely due to its political context. The risks are mainly posed by hazardous waste and certain chemical substances, including persistent organic pollutants (POPs) and mercury, to human health and the environment. These issues significantly contribute to air pollution, water contamination, and degradation of agricultural land.

Moreover, Palestine is a signatory to the Basel, Rotterdam, Stockholm and Minamata (BRS-M) conventions and fulfills its international and domestic obligations. However, its unique national circumstances—such as its isolated geography, lack of control over its borders, ongoing aggression on Gaza Strip, and significant disruptions to waste management—complicate waste and chemical management. Additionally, there are large amounts of demolition waste to contend with.

Consequently, the creation of a comprehensive Hazardous Waste Management Plan (HWMP) is vital to effectively address the complexities associated with hazardous waste disposal. This plan will outline strategic approaches to identify, categorize, and manage hazardous wastes and materials, ensuring that waste management practices are not only compliant with regulatory standards but also promote sustainability and environmental protection. By implementing a hazardous waste management plan (HWMP), the risks posed by hazardous waste can be minimized, and thus fostering safer, healthier communities.

The Palestine Liberation Organization for the benefit of the Palestinian Authority, delegated the Ministry of Finance (MoF) to allocate fund from the World Bank Group towards implementing the first phase of the West Bank & Gaza Integrated Solid Waste Management Project (ISWMP-1) through the Municipal Development and Lending Fund (MDLF) on behalf of the Ministry of Local Government. The ISWMP is a strategic program that aims to improve solid waste management (SWM) practices towards circular economy departing from the linear mode of SW management in line with national strategies and plans. ISWMP-1 will also lay the foundation for critical policy reforms and institutional capacity-building to ensure the sector’s long-term operational, financial, and institutional sustainability.

MDLF intends to hire a qualified consultancy firm to prepare a national hazardous waste management plan to be applied across the West Bank, in accordance with the Palestinian Environment Quality Authority (EQA) requirements.



2. Objective of the Assignment

The primary objective of this assignment is to develop a comprehensive Hazardous Waste Management Plan for West Bank. The plan should aim to:

- 2.1. Assess the legal and institutional framework and the national laws for managing hazardous waste management.
- 2.2. Assess and identify the stakeholders associated with the hazardous waste management process along with the role, interest and influence of each group.
- 2.3. Identify the current hazardous waste streams and procedures and prepare a baseline inventory of those streams across the West Bank.
- 2.4. Review and assess existing HW management practices. This should cover both formal and informal practices, infrastructure/assets and related legal, institutional and financial frameworks in place and prepare the gap analysis for referred frameworks.
- 2.5. Develop practical approaches for the classification, segregation, safe collection, transfer/transportation, treatment, storage (both temporary and long term) and disposal of hazardous waste in consistency with existing regulatory framework.
- 2.6. Propose a timebound action plan for the engagement of various groups of stakeholders in the process of hazardous waste management, including non-governmental and informal stakeholders. This should include the proposed approaches for engagement and information sharing.
- 2.7. Propose a plan for public awareness raising including the tools and techniques with concrete activities to be utilized to raise the awareness of various concerned stakeholders' group.
- 2.8. Propose improvements to existing legal, financial and institutional frameworks to support functional hazardous waste management (HWM) system.
- 2.9. Propose Best Available Technologies (BAT) and Best Environmental Practices (BEP) for hazardous waste management which would fit the local context and will be financially viable given the fragile economic and political context in the West Bank.
- 2.10. Propose a comprehensive training program to government employees and other stakeholders involved in hazardous waste management, including procedures, safety protocols, and emergency response measures.
- 2.11. Share success case studies for HWM systems implemented in various developing and developed countries (to be annexed in the HWMP).
- 2.12. Propose a regular monitoring and inspection process to ensure the effective implementation of the HWMP.
- 2.13. Develop a comprehensive investment plan to implement the HWMP.



3. Scope of Service

The consultant will undertake the following tasks:

3.1. Task 1: Assessment of legal, institutional, and financial framework

A. Legal:

- 3.1.1. Evaluate the current legal framework (including regulatory, licensing and permitting procedures), and propose necessary amendments to improve the current legal framework.
- 3.1.2. Review the international treaties that govern the management of hazardous waste in West Bank, with the aim of informing policy alignment and improving compliance strategies.
- 3.1.3. Propose classification of hazardous waste streams based on international treaties and national regulations to ensure proper handling, collection, transport, storage treatment, and disposal in compliance with environmental and public health standards.
- 3.1.4. Identify emerging issues and recommendations to be integrated/considered into the legal framework, such as e-waste, end-of-life vehicles, used oil, radioactive waste, Ordnances, contaminated soil, contaminated plastic wastes, pesticides, pharmaceuticals, etc.

B. Institutional:

- 3.1.5. Review existing institutional set up and prepare the gap analysis.
- 3.1.6. Develop an institutional framework outlining roles and responsibilities of various stakeholders.
- 3.1.7. Review existing regulations and propose necessary amendments or new regulations to support an improved institutional framework for hazardous waste management.

C. Financial:

- 3.1.8. Review existing financial framework and prepare the gap analysis.
- 3.1.9. Review existing regulations and propose necessary amendments or new regulations to support an improved financial framework for hazardous waste management.

3.2. Task 2: Assessment of Current HWM Practices:

- 3.2.1. Conduct a detailed assessment of existing hazardous waste management formal and informal practices in West Bank, including sources, types, and quantities, illegal traffic, export and import of HW, and the handling processes.
- 3.2.2. Prepare an Inventory of current HW streams in West Bank and available assets used to collect, transfer, store and the disposal of the HW across the West Bank.
- 3.2.3. Identify gaps and challenges facing the implementation of the current regulatory framework.



3.3. Task 3: Development of Management Approaches:

- 3.3.1.** Propose the best applicable waste management approaches, including waste collection, segregation, transfer/transportation, treatment, storage and disposal of hazardous waste.
- 3.3.2.** Recommend best available practices (BAP) and best available technologies (BAT) suitable for the national context, with the following considerations among others;
- BAP should cover the different types of main hazardous wastes, e.g. e-waste, batteries, PCBs, medical wastes, waste oils/chemicals, generated in West Bank.
 - For the recommendation of BAP/BAT, the amount of each type of waste generated and capacity of existing treatment/recycling technologies in West Bank should be considered, and
 - Interviews to the companies which own the subject technologies will be required, and If BAP/BAT are not available for certain wastes, alternative options should be proposed, e.g. export for recycling, waste management technologies available in the region to be imported/applied.

3.4. Task 4: Public Awareness and Stakeholders Engagement:

- 3.4.1.** Develop a public awareness program focused on hazardous waste management for the community, private sector, governmental and non-governmental institutions.
- 3.4.2.** Propose methods to effectively implement a public awareness campaign within the community regarding hazardous waste management.
- 3.4.3.** Define indicators to measure the success of plans' implementation including participatory indicators such as stakeholders' survey, and others.
- 3.4.4.** Develop a process to collaborate and engage key stakeholders, including government agencies, Joint Service Councils, the private sector, research institutions, and civil society, in the public awareness program.

3.5. Task 5: Preparation of the HWMP and Implementation Process:

- 3.5.1.** Compile the findings and recommendations into a comprehensive Hazardous Waste Management Plan, outlining clear strategies, procedures, and responsibilities.
- 3.5.2.** Ensure the plan aligns with national and international standards and best environmental practices.
- 3.5.3.** Define the detailed human, technical, and financial resource necessary for the Effective Implementation of HWMP.
- 3.5.4.** Identify and elaborate on the environmental, health, and legal implications of not implementing an HWMP.
- 3.5.5.** Establish specific objectives, measurable targets, and performance indicators to monitor and evaluate the effectiveness of HWMP implementation.
- 3.5.6.** Propose a structured reporting schedule and monitoring approaches to track progress, ensure accountability, and enable timely corrective actions.



4. Deliverables:

The Consultant is expected to deliver the following:

- 4.1. **Inception Report** outlining the content of the HWMP, methodology, and proposed work plan, in addition to a security management plan for the assignment.
- 4.2. **Assessment Report** on current hazardous waste management practices and the existing legal, institutional and financial frameworks.
- 4.3. **Draft Hazardous Waste Management Plan:** the plan shall include a national hazardous waste profile along with future projections, as well as policy and action recommendations tailored to specific sectors (e.g., healthcare, manufacturing, agriculture) and waste streams (e.g., chemical waste, medical waste, e-waste). It should also present proposals for upgrading infrastructure, adopting appropriate treatment methods and technologies considering the available methods and technologies in West Bank, and improving data systems. Strategies for managing unreported and legacy hazardous waste issues, alongside capacity-building and awareness initiatives. The draft HWMP shall also include **HWMP Public Awareness Program** with all needed sub-plans for the community private sector, governmental and non-governmental institutions, effective methods for implementing an awareness campaign, and engagement of key stakeholders. Finally, the plan should define clear institutional set-up and indicators for implementation, monitoring, evaluation, and reporting.
- 4.4. **Two Workshops:** with physical participants of up to 50 persons in each representing the stakeholders to discuss the draft plan and present the final draft with all associated costs covered by the Consultant, and this is in addition to online meetings that shall be conducted throughout the assignment with the client, donor, and other stakeholders as needed.
- 4.5. **Final Hazardous Waste Management Plan:** incorporating feedback from stakeholders.

5. Timeline

The assignment is expected to be completed within six months from the date of contract signing. The timeline for key deliverables is as follows:

- 5.1. Inception Report 2 weeks from contract signing.
- 5.2. Assessment Report 2 months from contract signing.
- 5.3. HWM Public Awareness Program 5 months from contract signing (to be annexed to final HWMP).
- 5.4. Draft HWMP 5 months from contract signing.
- 5.5. Final HWMP 7 months from contract signing.

6. Team Composition & Qualifications of the Key Experts:

6.1. Key Experts:

1. Team Leder/ Senior Environmental Management Expert
2. Hazardous Waste Management Specialist
3. Environmental Policy and Institutional Expert
4. Social Development and Communication Specialist



6.2. Qualifications and Work Experience:

6.2.1. Team Leder/ Senior Environmental Management Expert: responsible for overall coordination, work planning, and quality assurance; oversee all technical components with clear and impactful outputs including geospatial database and maps for hazardous waste sources, transport routes, and disposal sites all within the support for spatial planning and visualization; liaise with EQA and other national partners; ensure consistency with international conventions. The team leader shall possess the following qualifications:

- Post graduate degree in environmental management, engineering, or equivalent.
- Minimum of 15 years of experience in a leading role in the field of waste management, with emphasis on special waste.
- Experience leading multi-disciplinary teams and similar assignments in developing countries.
- Proven knowledge in legal, institutional, and financial frameworks of Hazardous Waste Management (HWM) systems.
- Practical knowledge in geospatial planning and development.
- Experience in the relevant HWM international treaties and guidelines, with proven record in participation and contribution to the sector both in the public and private spheres.
- Excellent communication skills with strong analytical and reporting skills in English.

6.2.2. Hazardous Waste Management Specialist: acts as a lead technical assessment of hazardous waste generation, collection, treatment, and disposal, propose technical solutions and management systems, benchmark with international best practices, in addition to conducting inventory of hazardous industrial waste, identify waste minimization and cleaner production opportunities, assess industrial practices. Key expert to possess the following qualifications:

- PHD in solid waste management, environmental, chemical engineering, industrial engineering, or equivalent.
- Minimum of 10 years of experience as an expert in the field of hazardous waste management (HWM).
- Knowledge of Basel Convention and waste classification standards.
- Knowledge in HWM classifications, production, treatment, and disposal.
- Proven Experience in HWM systems design and implementation.
- Knowledge of Best Available Practices (BAP) and Best Available Techniques or Technologies (BAT) and) for hazardous waste management
- Excellent communication skills with strong analytical and reporting skills in English.

6.2.3. Environmental Policy and Institutional Expert: shall review national policies, laws, and institutional frameworks; assess roles and capacities of key institutions; propose policy, regulatory, and institutional strengthening



measures, in addition to review and align national legislation with Basel, Stockholm, and Rotterdam Conventions; recommend legal reforms and enforcement mechanisms, and ensure integration of environmental safeguards; assess potential risks and mitigation measures in alignment with World Bank/UNEP standards. Key expert to possess the following qualifications:

- University degree in environmental policy, law, or public administration.
- Minimum of 10 years of experience in environmental governance and institutional analysis in MENA region, with knowledge in the Palestinian context.
- Experience in international standards including World Bank Environmental and Social Standards (ESS), with emphasis on special waste.
- Excellent communication skills with strong analytical and reporting skills in English.
- Proficiency in Arabic is an advantage.

6.2.4. Social Development and Communication Specialist: shall ensure integration of social development aspects in alignment with National policies and World Bank standards, in addition to the design and implementation of stakeholder identification and engagement plan; facilitate workshops; ensure gender and inclusion considerations; prepare awareness and communication materials and designing awareness campaigns. Key expert to possess the following qualifications:

- Minimum master's degree in social science.
- Minimum of 8 years of experience in the preparation of the social safeguards' aspects in ESIA/ESMP and in the design, preparation, and the implementation of stakeholder action plans.
- Experience and track records in designing and implementing communication and awareness raising activities and campaigns
- Experience in international standards including World Bank Environmental and Social Standards (ESS).
- Excellent communication skills with strong analytical and reporting skills in English.
- Proficiency in both Arabic and English is required.

7. Reporting:

The Consultant shall sustain continuous and prompt communication with the Palestinian Environment Quality Authority (EQA). Deliverables are subject to clearance from national line ministries such as the Ministry of Local Government (MoLG) and the Ministry of Agriculture (MoA), in addition to the World Bank; therefore, the Consultant is expected to join multiple meetings in person and online to present deliverables and showcase the different alternatives. The language of correspondence and data collection forms and templates shall be in **English and Arabic** depending on a case-by-case basis, all reports all main report and HWMP must be in both **Arabic and English**. All deliverables shall be submitted in editable format (MS Word, Excel, PowerPoint) and in portable document format (PDF), and all reports



and the database/GIS outputs shall be impactful and of high quality following the requirements of EQA.

8. Payment Schedule:

Payments for this assignment will be made upon the acceptance of the Client (EQA and MDLF) and will be arranged according to the following:

- Payment 1** 10% of the contract value will be paid after the submission to and approval by of the Inception report.
- Payment 2** 30% of the contract value will be paid after the submission to and approval of the Assessment Report.
- Payment 3** 40% of the contract value will be paid after the submission to and approval of the Draft HWMP and HWM Public Awareness Program.
- Payment 4:** 20% of the contract value will be paid after the submission to and approval of the Final HWMP.

9. Selection of Consultants and Contracting

Consultants will be selected in accordance with Quality and Cost Based Selection (QCBS) procedures. The contract shall be A Lump sum including remuneration and reimbursable expenses. Payments will be linked to the completion of each deliverable acceptable to client. The duration of the assignment shall be 7 months (28 Weeks) from the date of contract effectiveness date.

10. Resources

Please visit the Environment Quality Authority's website for resources on the environment in Palestine, the following direct link list number of plans and strategies of relevance in both Arabic and English:

[الخطط – سلطة جودة البيئة – فلسطين](#)