

UNITED NATIONS DEVELOPMENT PROGRAMME

PROJECT DOCUMENT ADDENDUM**Lebanon**

Project Title: Environmental Rehabilitation through the enhancement Of Integrated waste management - EROI

Project Award Number: 00106573 – **Project Output Number:** 00107249

Implementing Partner: UNDP (DIM)

Start Date: 01 July 2020

End Date: 30 April 2023

PAC Meeting date: 13 July 2020

Brief Description

Given that the Bekaa region hosts a large portion of refugees and is highly affected by the increase in waste production, and given that the Municipality of Zahleh already has a functioning sanitary landfill that however needs additional support (as per detailed assessment study conducted in summer 2016), “Environmental Rehabilitation through the enhancement Of Integrated waste management – EROI” project aims at providing additional institutional support to both the Ministry of Environment (MoE), responsible for solid waste management at the national level, and to the Municipality of Zahleh to expand, better manage, and support in solid waste management in the Bekaa region.

Moreover, the updated Master Plan for the closure and rehabilitation of uncontrolled dumpsites throughout the country of Lebanon has determined the location and size of all the Municipal Solid Waste dumpsites that require immediate intervention. The Solid Waste Management project targets to close/rehabilitate dumpsites in the vicinity of the Zahleh landfill given that this facility exists as a viable alternative for open dumping. The dumpsites, proposed for closure/rehabilitation, are in proximity to one another to ensure that any treatment of the waste or transport is efficiently done.

This will have a direct impact on the Litani river and Qaraoun lake, in terms of preventing further pollution and restoring the river quality. This has been flagged as a national priority for the country, based on the MoE/UNDP 2011 Business Plan for Combating Pollution of the Qaraoun Lake, later turned into a roadmap endorsed by all stakeholders, and which a follow up committee (basin committee) was established for by virtue of the Council of Ministers’ decision 32 of May 9, 2014.

UNSF Outcome involving UNDP: Outcome 3.3. Lebanon has improved environmental governance.

CPD Output 4.2.: National Environmental Management strengthened; Outcome 4.3. Number of national development plans and processes integrating: biodiversity, renewable energy, energy efficiency, sustainable consumption and production, climate change, sound chemical management, and ecosystem services values.

Indicative Outputs: 1) Legal and institutional support; 2) Technical research and policy support, and 3) Implementation to foster resilience and regional and national cross fertilization

Gender marker: GEN2

Total resources required:	\$ 1,706,485 (exchange rate \$ 1 = € 0.879)	
Total resources allocated:	UNDP TRAC:	
	Donor:	€ 1,500,000
	Government:	
	In-Kind:	
Unfunded:		

UNDP

DocuSigned by:

Ms. Melanie Hauenstein
Resident Representative





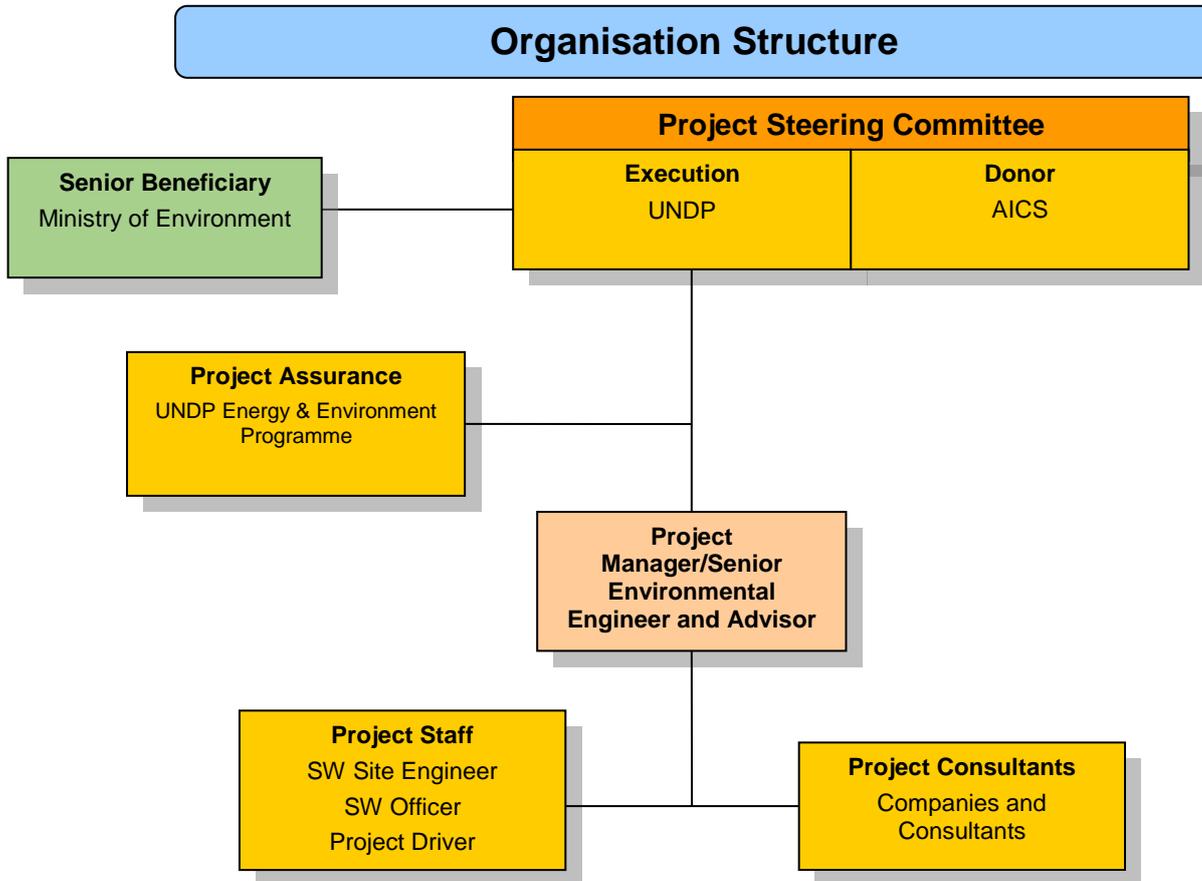
Date: 08-Apr-2022

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The current addendum is prepared to reflect the time extension without cost implications granted by the Donor.

Below is the updated Project Board, the updated Logical Framework Matrix, and the updated budget.

1- Updated Project Board:



2- Updated Results Matrix:

Expected results	Description	Verification and objective indicators	Means of verification	Assumptions	Progress
General objective	Enhance environmental rehabilitation and sustainable management of natural resources at the local and national level.	Improved the management of Solid Waste Ministry of Environment's capacity increased to awareness related to the Solid Waste sector	Technical studies and reports from Ministry of Environment CoM's decisions in the Solid Waste Sector Lebanese legislation	The Government of Lebanon remains committed to its strategic targets The changes/rotations in the personnel of the Ministry of Environment do not affect project implementation	An assessment of the Facility has been conducted. PMU team is working in close coordination with local authorities and focal point at MoE
Specific objective	The project will specifically assess the current situation of Zahle Facility and upgrade it.	Improved solid waste management in Zahle and surrounding.	Project reports	Political commitments from the MoE	An assessment report of the solid waste facility has been prepared (dated February 2021), and an assessment study of the leachate infrastructures and upgrades have been prepared (Completed including tender documents during the first week of July 2021).
Output 1: Ministry of Environment and the Municipality of Zahle capacitated and supported in Integrated Solid Waste Management (ISWM).	Setting up a PMU Assessment of the Zahle Facility Training Program for the Facility Operators on O&M				Solid Waste Expert hired Facility assessment report dated February 2021 completed. One set is due in the first half of 2022, while the second set is due after completing the construction of the new leachate treatment plant

<p>Output 2:</p> <p>Technical assessment for the improvement of Zahle Solid Waste Management Facility</p>	<p>Provision of technical support and analysis to assessment Zahle Facility current status and design an appropriate leachate management system for the Zahle Municipality.</p> <p>Implementation of Appropriate Leachate Management System</p> <p>Any necessary environmental assessments studies and MoE Approval for both Leachate and Sludge Treatment</p>	<p>Technical study and assessment reflecting the current situation at Zahle Facility</p> <p>Detailed design of the leachate management system Environmental impact assessment for Zahle facility</p> <p>Leachate collection network for the proposed expansion of the landfill, vertical leachate recirculation wells, leachate recirculation network, and recirculation pump, (b) leachate treatment. A specialized engineering company will be contracted to undertake the study and then a tender will be launched for the implementation of the works</p>	<p>Existing studies at the MoE</p> <p>Database collected related to the project</p> <p>Initial assessment report</p>		<p>Leachate assessment studies and preparation of tender documents have been completed</p> <p>Tender documents for the upgrades and the new leachate treatment plant was launched on 10September 2021. (additional upgrades related to landfill capping may be launched after contract award)</p> <p>Implementation of works should be launched in December 2021/January 2022.</p> <p>Environmental study will be launched once the Leachate upgrades are completed</p>
<p>Output 3:</p> <p>Selection of dumpsites in Zahle vicinity to be closed and rehabilitated</p>	<p>Rapid assessment of existing dumpsites in the area</p> <p>Necessary Study for the Closure/Rehabilitation of One or More Open Dump</p>	<p>Number of critical dumpsites in the area based on the updated Master Plan for the closure and rehabilitation of uncontrolled dumpsites (MoE/UNDP study 2016-2017)</p> <p>Number of awareness raising activities in the area</p> <p>Number of capacity building activities/workshops at the</p>	<p>Updated Master Plan for the closure and rehabilitation of uncontrolled dumpsites (MoE/UNDP study 2016-2017)</p> <p>Another existing MoE studies related to the assessment of dumpsites</p> <p>Hazzerta Provision of Services for the Preparation of Necessary Studies for the</p>		<p>Internal assessment of existing dumpsites was conducted and Hazzerta dumpsite was selected.</p> <p>Bid for rehabilitation of Hazzerta dumpsite was launched in May 2021.</p> <p>Contract was awarded in September 2021</p>

		national level	Closure and Rehabilitation of Hezzerta Dumpsite Assessment of the current situation in the area based on LCRP studies and selection of dumpsites UNDP assessment in the area nearby Litani River		Training should be implemented upon completion of the rehabilitation works (tentatively March 2022)
Activities in relation to Output 1	<ul style="list-style-type: none"> • Setting up a PMU at MoE • Assessment of the Zahlé Facility • Training Program for the Facility Operators on O&M 				<ul style="list-style-type: none"> • Solid Waste Expert hired • Facility assessment report dated February 2021 completed. • One set is due in the first half of 2022, while the second set is due after completing the construction of the new leachate treatment plant
Activities in relation to Output 2	<ul style="list-style-type: none"> • Technical Studies and Designs of an Appropriate Leachate Management System • Implementation of Appropriate Leachate Management System • Technical Study for Sludge Treatment Options • EIA Studies and MoE Approval for Both Leachate 				<ul style="list-style-type: none"> • Leachate assessment studies and preparation of tender documents completed • Tender documents for the upgrades and the new leachate treatment plant was launched on 10 September 2021.

	and Sludge Treatment				<ul style="list-style-type: none"> • Implementation of works should be launched in December 2021/January 2022. • Sludge assessment study RFP launched in July 2021; contract award in September 2021; Implementation of works expected to start in September/October 2021 • Environmental Study will be launched during the second half of 2022.
Activities in relation to Output 3	<ul style="list-style-type: none"> • Necessary Study for the Closure/Rehabilitation of One or More Open Dump • Concerned Municipality Capacitated to Use the Zahle SWM Facility • Closure/Rehabilitation of One or More Open Dump 				<ul style="list-style-type: none"> • Bid for rehabilitation of Hazzerta dumpsite was launched in May 2021. • Contract expected to be awarded in August/September 2021 • Training should be implemented upon completion of the rehabilitation works (tentatively March 2022)

	Audit	Internal UNDP audit	5,688.28	5,000	-	-	5,688.28	-	5,688.28	5,000	(0.00)	0.00%	No Variation
	Capacity Building		68,306.03	60,041	-	-	7,311.57	-	7,311.57	6,427	(60,994.46)	-89.30%	Originally 68,306\$ reduced to 7,311.57\$ due to covid-19 and online services. Remaining 60,994.46 reallocated to Result 2
	Subtotal A1		328,656.43	288,889	4,480.55	51,629.81	146,632.85	42,502.15	245,245.21	215,571	(83,411.22)	-25.38%	
Result 2: Improvement of Zahleh Facility	Leachate management		1,023,890.78	900,000	-	174,010.00	733,292.00	200,000.00	1,107,302.00	973,318	83,411.22	8.15%	Originally 1,023,890.78\$ increased to 1,107,302\$ by reallocation of 83,411.18\$ from Result 1.
	Subtotal A2		1,023,890.78	900,000	-	174,010.00	733,292.00	200,000.00	1,107,302.00	973,318	83,411.22	8.15%	
Result 3: Rehabilitation of dumpsite	Subcontracting		227,531.29	200,000	-	179,948.00	47,583.29	-	227,531.29	200,000	0.00	0.00%	No Variation
	Subtotal A3		227,531.29	200,000	-	179,948.00	47,583.29	-	227,531.29	200,000	0.00	0.00%	
	TOTAL		1,580,078.50	1,388,889	4,480.55	405,587.81	927,508.14	242,502.15	1,580,078.50	1,388,889	0.00	0.00%	
	UNDP management fees for headquarters (8%)		126,406.14	111,111	358.44	32,447.00	74,200.55	19,400.15	126,406.14	111,111	0.00	0.00%	No Variation
	TOTAL		1,706,484.64	1,500,000	4,838.99	438,034.81	1,001,708.69	261,902.30	1,706,484.64	1,500,000	0.00	0.00%	No Variation