

ANNEX C25: ESTIMATED COSTS OF THE ESMP

The cost estimates presented in **Table 1** are based on current prevailing prices. It should be noted that escalation was applied to salary only and that the provided costs do not include sales tax.

Table 1: Estimated costs of the ESMP for four construction years and one operation year

Item No.	Item	Provisional Estimate (JD)*	Notes
1	ESMP Operation		
1.1	Contractor Environmental and Social Management Unit Operation		
1.1.1	Contractor Environmental and Social Management Unit - Staffing		
	ESMP- Coordinator	144,000	For four years based on annual basic salary of JD15,000
	ESMP-Technical Environmental and Social Site Investigation Staff 1	77,000	For four years based on annual basic salary of JD10,000
	ESMP- Technical Environmental and Social Site Investigation Staff 2	77,000	For four years based on annual basic salary of JD10,000
1.1.2	Staff Training and Public Awareness	30,000	Throughout project duration
1.1.3	Transportation (4x4 Pickup car), Diesel, Maintenance and Insurance	50,000	Once
1.1.4	Administrative Overhead which includes: secretary, office boy, stationary, reports production and communication**	60,000	For four years based on annual lump sum of JD15,000
1.2	Consultant Environmental and Social Management Unit Operation		
1.2.1	Consultant Environmental and Social Management Unit - Staffing		
	ESMP- Coordinator	144,000	For four years based on annual basic salary of JD15,000
	ESMP- Technical Environmental and Social Auditing Staff 1	77,000	For four years based on annual basic salary of JD10,000
	ESMP- Technical Environmental and Social Site Investigation Staff 2	77,000	For four years based on annual basic salary of JD10,000
1.2.2	Staff Training and Public Awareness	15,000	Throughout project duration
1.2.3	Transportation (4x4 Pickup car), Diesel, Maintenance and Insurance	50,000	Once
1.2.4	Administrative Overhead which includes: secretary, office boy, stationary, reports production and communication**	60,000	For four years based on annual lump sum of JD15,000

* Salaries include social benefits and social insurance.

** Office space for the Contractor and the Consultant Engineers are part of the Contract Document.

Table 1: Estimated costs of the ESMP for four construction years and one operation year (contd.)

Item No.	Item	Provisional Estimate (JD)*	Notes
2	ESMP Implementation		
2.1	Mitigation Measures Implementation		
2.1.1	Precautionary approach	--	ESMP precautionary actions possess no cost implication on the contractor where most of which are standard procedures, and/or presented in the contract documents as contract conditions.
2.1.2	Restoration approach	--	Restoration cost implications are variable based on the magnitude of the caused damage. Since restoration is addressed in the BOT contract documents it is understood that the restoration costs are already calculated as part of the overall project budget as construction cost.
2.1.3	Compensation Approach	--	Upon incidence of impact and only if avoidance and restoration were un successful. Re-plantation or compensation for removed trees (mainly olive) within farms along the route from Qatranah to Amman will cost about 5 JD re-planting each trans-located tree, or will cost between 50 to 150 JD per olive tree as compensation cost that varies based on the tree age and productivity. Replantation or compensation for removed trees (forestry stands) along the route will cost about 5 JD re-planting each translocated tree, or will cost between 15 to 25 JD per stand tree based on planting and nursing costs for 2 years. Other compensation actions especially those related to land Acquisition , business disruption, and personal or property damage should be dealt with separately upon incidence. Such claims might be taken to the court of law.
2.1.4	Cultural Resources Management (CRM)	50,000	Fencing and Chance Find procedures. Salvage Excavations, rescue operations and/or compensation for damages are not included which depend on actual damages.
2.2	Public Communication and Disclosure of Project Information		
2.2.1		20,000	For four years
2.3	Additional Monitoring		
2.3.1		30,000	For Wadi Crossing based on 6,000/year
2.3.2		40,000	For Air Quality based on 4 times/year for 4 years
2.3.3		30,000	For Noise Level based on once per month for 4 years
2.3.3		30,000	For mitigation measures to reduce risks to natural habitats and important species on once a month for 4 years
2.4	External Auditing		
2.4.1		50,000	For 5 years based on 10,000 JD/year
2.5	Environmental Evaluation at End of the Project by a Private Consultant		
2.5.1		15,000	To be estimated at end of construction