Proposed Project for Waste Water Treatment in Wadi Al Arrub

Project Title	**Mitigating the Impact of Wadi El Arub Wastewater Stream on Health, Environment and Water Resources**
Project Duration	18 months
Estimated Budget	The total estimated budget is US ***$750,000***.
Stakeholders	Ministry of Agriculture, Palestinian Water Authority, Ministry of Local Governorates, Local NGOs, Local Agricultural Societies.
Targeted Areas	Kuziba and Urqan Trad - Sair.
Beneficiaries	Local communities of the targeted localities.
Project Description	The total localities connected to a wastewater collection system in the Hebron Governorate are only 6 localities, forming 7.3% of the total localities in the governorate, while the rest of the localities depend on cesspits and open channels. The main wastewater stream in Shuyukh Al Arrub in Hebron Governorate flows through Wadi Al Arrub (Seal Al Arrub), where sewage flows from Al Arrub Camp towards Urqan Trad passing through Kuziba. The wastewater flow of Seal Al Arrub is affecting the environment and the health of the population in the area. Additionally the flood of sewage water degrades the environmental quality of the surrounding agricultural land, since the wastewater flow affects soil quality, polluting and damaging the cultivated crops. Furthermore, Seal Al Arrub is located over a permeable geological area, which is considered as a water catchment area that supports the Eastern Ground Water Aquifer with harvested rainwater; thus, the flow of wastewater in this environmentally sensitive area will create an environmental crises resulting in the deterioration of the ground water quality of the Eastern Aquifer.
Project Objectives	• To improve the wastewater management in Seal Al Arrub area. • To improve the environmental and health conditions of the localities near Seal Al Arrub area.

	• To increase the agricultural areas by utilizing the treated wastewater in irrigation. • To improve the income generation of local communities. • To protect the surface and groundwater from potential contamination. • To increase the food security of local communities. • To increase human resource capacity and knowledge. • To assist in lowering unemployment rate in the surrounding areas.
Project Activities	• Construction of 200m of waster water amine pipes in the populated areas to mitigate the impact the flow of wastewater in open stream. • Establishment of a wastewater treatment unit with a capacity of 100 cubic meters per day. • Providing of main pipelines for the distribution of treated wastewater to farmers. • Training of local authorities on wastewater management taking into consideration the local circumstances. • Creation of an association to follow up, monitor and manage the wastewater discharge in Seal Al Arrub area.
Expected Results	• The quality of surface and ground water resources in the targeted area conserved and improved. • The irrigation water increased by 100 cubic meters per day. • Agricultural areas increased by 100 dunums. • Food security increased at local level. • Adoption of new friendly technologies at feasible costs. • Job creation at local level. • Health and environmental conditions improved. • Cost of waste water management reduced. • Awareness regarding waste water management, gardening and the use of new technologies improved. • Wastewater management system was created and functioning.