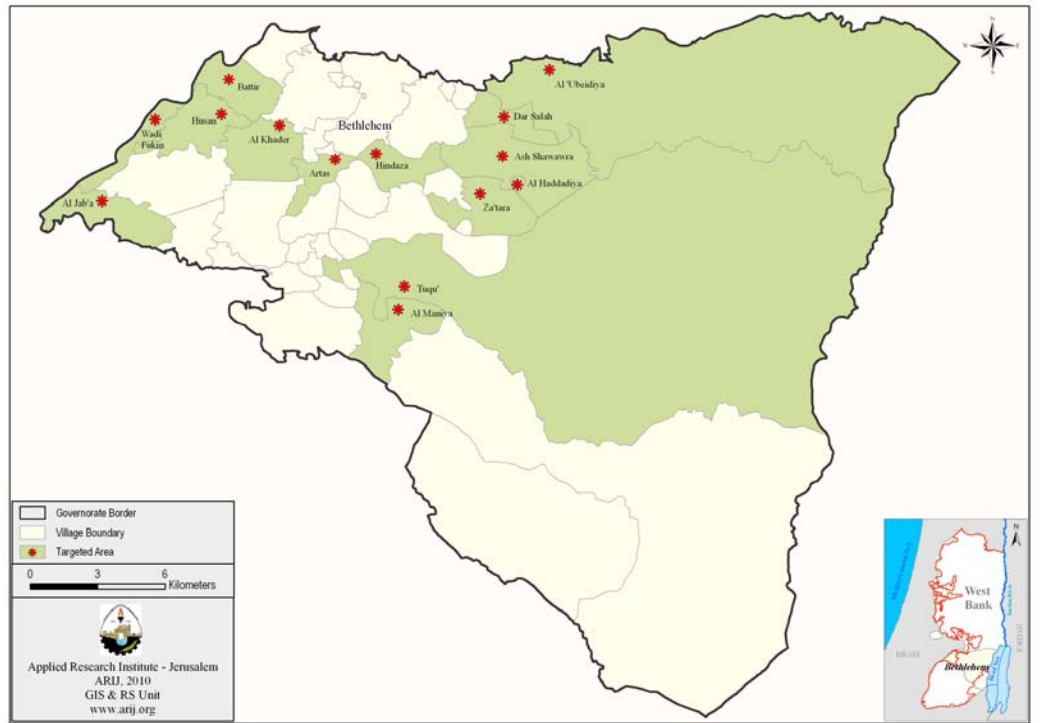


Proposed Project for the Rehabilitation of Agricultural Springs and Roman Cisterns

Project Title	Rehabilitation of Springs and Roman Cisterns																																																																		
Project Duration	18 months.																																																																		
Estimated Budget	The total budget is estimated at around US \$1,747,500 . 25% of the cisterns construction's, pools rehabilitation, and drip irrigation system costs will be provided through beneficiaries' contributions.																																																																		
Stakeholders	The project stakeholders will be the Ministry of Agriculture (MoA), the Palestinian Water Authority (PWA), local authorities, civil society and NGOs.																																																																		
Targeted Areas	<p>The project will target 12 localities in three Agro-Eco zones clusters in the Bethlehem Governorate, as the following:</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr style="background-color: #f1c232;"> <th colspan="2">Eastern Cluster</th> <th colspan="2">Western Cluster</th> <th colspan="2">Southern Cluster</th> </tr> <tr style="background-color: #f1c232;"> <th>Locality</th> <th># Roman Cisterns</th> <th>Locality</th> <th># Springs</th> <th>Locality</th> <th># Springs</th> </tr> </thead> <tbody> <tr> <td>Hindaza</td> <td>16</td> <td>Battir</td> <td>1</td> <td>Artas</td> <td>1</td> </tr> <tr> <td>Al 'Ubeidiya</td> <td>10</td> <td>Al Jab'a</td> <td>2</td> <td></td> <td></td> </tr> <tr> <td>Za'tara</td> <td>10</td> <td>Wadi Fukin</td> <td>3</td> <td></td> <td></td> </tr> <tr> <td>Al Maniya</td> <td>10</td> <td>Al Khader</td> <td>3</td> <td></td> <td></td> </tr> <tr> <td>Ash Shawawra</td> <td>10</td> <td>Husan</td> <td>2</td> <td></td> <td></td> </tr> <tr> <td>Tuqu'</td> <td>20</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Dar Salah</td> <td>3</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Total</td> <td></td> <td></td> <td>11</td> <td></td> <td>1</td> </tr> <tr> <td>Grand Total</td> <td>79</td> <td colspan="4">12</td> </tr> </tbody> </table>	Eastern Cluster		Western Cluster		Southern Cluster		Locality	# Roman Cisterns	Locality	# Springs	Locality	# Springs	Hindaza	16	Battir	1	Artas	1	Al 'Ubeidiya	10	Al Jab'a	2			Za'tara	10	Wadi Fukin	3			Al Maniya	10	Al Khader	3			Ash Shawawra	10	Husan	2			Tuqu'	20					Dar Salah	3					Total			11		1	Grand Total	79	12			
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Map of Targeted Areas



Beneficiaries

Springs and Roman cisterns are not privately owned; they are public resources of water. Thus, most (if not all) members of the targeted communities will benefit from these interventions which, according to PCBS data, would occur close to the homes of 58,500 individuals.

Project Description

Springs are one of the most important natural resources of water in Palestine. Now more than ever, these springs need preservation and rehabilitation in order to act as supplementary sources of water. Also, most of these springs are located inside the Palestinian communities and controlled by the Palestinians (not the occupation authorities). The continuous decrease of water supply in the Palestinian Territory has affected all types of life activities, mainly in the agriculture sector.

Moreover, most of the available springs are not efficiently utilized. For example, the absence of storage pools connected to the springs and the leaking of available pools causes large quantities of springs' water loss.

Roman cisterns, in addition to functioning as source of water, act as one of the ruins and heritage of the Palestinian people who are living in the area, where shippers used to move with their folks and families during the grassing season and to stay and use the water for their own families and folks' needs. Shepherds usually abandon these areas when these cisterns are not functioning, so by rehabilitating them, the shepherds will move again to these areas.

	<p>This project will assist in the rehabilitation of 12 springs and 12 water reservoirs (one for each spring), and rehabilitating 30 farmers irrigation pools. In addition, the project will help in the construction and rehabilitation of 500m of water canals, and the installation of a drip irrigation network for 100 dunums of land in the targeted areas.</p> <p>Also, the project will assist in the rehabilitation of 79 Roman Cisterns with a minimum capacity of 150m each.</p>
<p><i>Project Objectives</i></p>	<ul style="list-style-type: none"> • To effectively and efficiently utilize the available natural water resources. • To increase the total irrigated area, thus increasing the productivity of the land and eventually improving the livelihood of small farmers in the targeted areas. • To create job opportunities during and after the lifespan of the project.
<p><i>Project Activities</i></p>	<ul style="list-style-type: none"> • Formulating the project community committees in the targeted communities. • Finalizing the selection of targeted springs and Roman cisterns. • Announcing for the community to apply to benefit from the project activities and selecting beneficiaries based on the selection criteria. • Preparing the project implementation manual and the bidding package. • Rehabilitating 79 Roman cisterns in the eastern villages. • Rehabilitating 12 springs in the targeted areas. • Rehabilitating 12 agricultural pools. • Rehabilitating 30 farmers' irrigation pools. • Rehabilitating and constructing about 500m of water canals. • Providing a drip irrigation system for 100 dunums in the targeted localities. • Supervising, monitoring and evaluating the implementation process. • Preparing the final reports and disseminating the results.
<p><i>Expected Results</i></p>	<ul style="list-style-type: none"> • 12 springs and 79 Roman cisterns water preserving and efficiently using water. • 30 farmers stopping the leakage of their irrigation pools and improved their cultivations. • 100 farmers optimizing the use of water through using drip irrigation systems. • The water losses through the old piping system controlled. • Total irrigated agricultural area increased. • New job opportunities created. • Beneficiaries' livelihoods improved. • Agricultural production increased due to the increase in productivity of

the agricultural unit.