



Methods for Irrigation and Agriculture
لتطوير أساليب الري والزراعة

Decentralized Wastewater Treatment and Reuse in Institutions: Mafraq Pilot in 3 Schools

Feb. 1, 2019 - Feb. 28, 2019

RFP#: WASH/JOR/PCA2018178/PD2018188/2018/MIRRA/Mafraq

Third Progress Report

Feb 1st 2019 -Feb 28th 2019

PROJECT FACT SHEET

PROJECT TITLE:	Decentralized wastewater treatment and reuse in institutions
FUNDING AGENCY:	The United Nations International Children's Emergency Fund (UNICEF)
START DATE:	December 1 st , 2018
END DATE:	August 31 st , 2019



IMPLEMENTING PARTNER IN JORDAN:

Methods for Irrigation and Agriculture (MIRRA) - a Jordanian non-governmental organization that specializes in the development of water and agricultural sectors including optimizing pressurized irrigation networks at the field and network levels, wastewater reuse in agriculture and capacity-building activities for individuals and institutions.



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General Information	
Country:	Jordan
Programme Code & Title:	WASH/JOR/PCA2018178/PD2018188/2018/MIRRA/Mafraq
Project Code & Title:	WASH/JOR/PCA2018178/PD2018188/2018/MIRRA/Mafraq
Responsible Officer(s):	Alham Al-Shurafat
Workplan Code & Title	WASH
Implementing Partner Name & Code:	MIRRA
Project Name:	Decentralized wastewater treatment and reuse in institutions: Mafraq Pilot in 3 Schools
Project Period:	<i>From 1/12/2018 to 31/8/2019</i>
Reporting period	<i>From 1/2/2019 to 28/2/2019</i>
Report Submission date:	<i>5/3/2019</i>
Section One: Summary	
<p><i>This project is a collaboration between MIRRA and UNICEF that works within the framework of decentralizing most of the services in Jordan. This project focuses on sanitation and wastewater management by targeting three schools in Irhab district within Mafraq Governorate. Irhab district has a population of 23,874 residents, of which 2,970 are Syrians. The district is an agricultural area with no sewer network coverage relying on cesspit for disposal of wastewater, water needs for agriculture are usually met through the piped water network that is supplied for domestic use. Alternatively, water trucking for agricultural purposes from privately owned boreholes is also practiced.</i></p> <p><i>The collaboration aims to pilot a new approach to wastewater treatment at a decentralized level within institutions but also communities to achieve the following objectives:</i></p> <ul style="list-style-type: none"> <i>• Safe management of wastewater at a decentralized level to prevent groundwater pollution and to reuse water for agricultural purposes.</i> <i>• Greywater reuse to reduce the volume of fresh water consumption</i> <i>• Solar power as an alternative sustainable energy source for the operation of the WWT system including the operation of the irrigation network.</i> <i>• Increase awareness between students and teachers on the importance of water conservation, environmental impacts of poor management of sanitation, and renewable energy as a sustainable source to provide energy.</i> 	

Section Two: Activities and Progress

Briefly listed below are the activities implemented during the month (Jan 2019) of the project.

- The team had visited the site on February 13, 2019, to discuss and plan with the school cadres the field activities related to Agriculture. The visit also included a visit to Directorate of Education in Mafraq Governorate to coordinate the project plans with the directorate plans and procedures



Figure 1: MIRRA team visit to Irhab schools and Mafraq Education Directorate on February 13, 2019.

- MIRRA held its second Monthly Meetup on 25 Feb 2019 by hosting the local stakeholders from Mafraq governorate and others from Amman to discuss the work plan and monitoring and evaluation plan of the project at MIRRA's Amman office. MIRRA described the sites, the work plan, the monitoring and evaluation plan, the contributions to development, stakeholder's involvement mechanisms, and tools giving the audience a sense of the numerous ways to participate in the project. MIRRA gave the audience the mechanisms and forms and formed an evaluation and monitoring committee from the local stakeholders to meet with on monthly basis to follow the project together. You can find attached **The Minutes of Meeting** to this progress report.



Figure 2: The meeting of the stakeholders to discuss the workplan on February 25, 2019.

- To form an evaluation and monitoring committee of teachers and concerned cadres in all the relevant bodies to give feedback through meetings, forms, events, and activities in order to share experiences and avoid differences on a monthly basis.
- Receiving the tender offers for the solar systems by 28th Feb. We are planning to open the Solar system tenders and evaluate them on Wednesday 6 Mar 2019. The opening is not in public and you can find attached **The Tender's Evaluation Excel Sheet** and **The Tender Documents for Solar Power Systems** to this progress report.
- Finishing the design of the reorganization of agriculture (~ 3 dunums) and cultivation of empty spaces (~ 3 dunums) inside the three schools. You can find attached **The Plan of the agriculture for Irhab Schools** to the progress report.
- MIRRA started the field work to have the crops and planting zones (Figure 3) fully prepared by 13th. After that, MIRRA is going to start planting the saplings before mid-March in Mafraq.

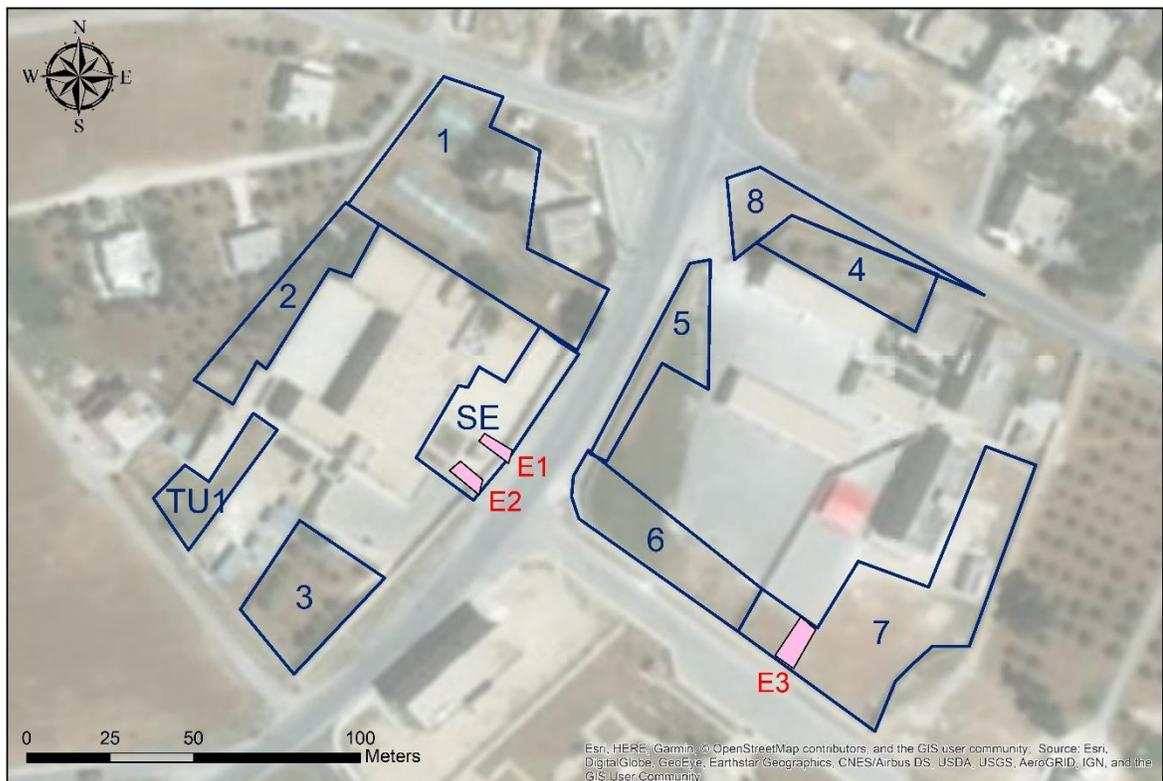


Figure 3: The zones in the schools to be reorganized in terms of agriculture and use.

- Irhab Comprehensive Secondary School for Girls provided an office for the MIRRA Site Officer to be able to work on the site on a daily basis.
- Starting the process of purchasing Laboratory equipment for treated water quality testing at Irhab Secondary school for Girls.

Section Three: Outputs and Deliverables

Deliverables:

- 1. The Plan of the agriculture for Irhab Schools**
- 2. Complaint/Discussion Mechanism**
- 3. The work plan as revised.**
- 4. Beneficiary Satisfaction Survey (BSS) of 25-02-2019.**
- 5. The Stakeholders Meeting Minutes and Stakeholder Monitoring and Evaluation Committee.**

Section Four: Internal Evaluation

The overall project is progressing in terms of accomplishing the objectives and adhering to the overall timeline.

Section Five: Risks, Issues, and Challenges

- The implementation of hygiene promotion and soft activities may face timeline restrictions due to the school schedule and final exams. The schools are available during the dates between mid-February through mid-June. Furthermore, there is a month-long period from mid-July to mid-August the students from the agricultural branch at the Irhab Secondary School for Girls have a mandatory training period at the school.*
- Decentralization projects are still being tested in Jordan, this may cause challenges in terms of the distribution of tasks to fully ensure the sustainability of the project.*
- The absence of official approvals of the project by the Jordanian government may lead to delays in the executive work at the site from the time specified according to the work plan.*

Section Six: Collaboration

Thus far there have been no collaborations.

Section Seven: Financial Statement

MIRRA received the first installment of 70,016 Jordanian Dinars on 17 December 2018. A number of bureaucratic roadblocks, however, initially complicated MIRRA's collection of the funds. The Jordan Kuwait Bank asked again by the end of January for an official letter written approval from the Ministry of Environment. Meanwhile, the Ministry of Environment notified MIRRA that it was unable to give approval until the Prime Ministry also granted official approval. After numerous conversations, the Jordan Kuwait Bank agreed to receive and consider a letter from UNICEF clarifies the current situation.

Section Eight: Official Requests

- MIRRA asks if you can send an **official letter to the Ministry of Finance** asking for **exemption from sales** (if applicable).*

Section Ten: Next Steps

Briefly listed below are the main activities planned during the month (March 2019) for the project

- *Irrigation infrastructure relevant works and other preparations*
- *Implementing the Reorganization of agriculture (~ 3 dunums) and cultivation of empty spaces (~ 3 dunums) inside the 3 schools.*
- *Building a fence segment between the walls of the boys' schools*
- *Designing the automatic drip irrigation systems*
- *Submit a Project Information Form (PIF) to the Ministry of Environment to determine whether the project needs an EIA. (Bending on the official approvals)*
- *Tenders evaluation and contracts setting up.*
- *Start forming a club for the students in each school concerned with sustainability and hygiene Promotion to follow up the project, write on media channels, shot short movies, making displays and create means (with involving other students). (Bending on the official approvals)*
- *Start doing tree days or other activities days in the field for students and the local community. (Bending on the official approvals)*
- *Start making demonstrations that are interactive as possible on the project by the student's clubs and other students to be displayed at the schools and ceremonies. (Bending on the official approvals)*
- *Start purchasing laboratory equipment for treated water quality testing at Irhab Secondary school for Girls.*

Section Eleven: List of Equipment

No equipment was purchased from the budget of this project yet.

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