Participatory Farm-level Irrigation Modernization (P124683)

MIDDLE EAST AND NORTH AFRICA | Egypt, Arab Republic of | Water Global Practice | Recipient Executed Activities | Specific Investment Loan | FY 2011 | Seq No: 8 | ARCHIVED on 06-Nov-2015 | ISR19343 |

Implementing Agencies: Ministry of Agriculture and Land Reclamation

Key Dates

Key Project Dates

- Bank Approval Date: 28-Oct-2010
- Effectiveness Date: 05-Sep-2011
- Original Closing Date: 05-Sep-2015
- Revised Closing Date: 30-Jun-2016

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The project will pilot more participatory approaches for modernizing farm-level irrigation and cropping practices by targeting about 5,000 small-scale farmers with an estimated irrigation area of 2,800 ha (7,000 feddan) in Egypt's Nile Delta.

Has the Project Development Objective been changed since Board Approval of the Project Objective?

No

Components

- Participatory Farm-level Irrigation Modernization: (Cost $1678800.00 M)
- Promotion of Improved On-Farm Irrigation and Cropping Practices: (Cost $818500.00 M)
- Participatory Monitoring and Evaluation, Dissemination of Lessons, and Project Management and Administration: (Cost $253000.00 M)

Overall Ratings

<table>
<thead>
<tr>
<th>Name</th>
<th>Previous Rating</th>
<th>Current Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Progress towards achievement of PDO</td>
<td>Moderately Satisfactory</td>
<td>Moderately Satisfactory</td>
</tr>
<tr>
<td>Overall Implementation Progress (IP)</td>
<td>Moderately Satisfactory</td>
<td>Moderately Satisfactory</td>
</tr>
</tbody>
</table>

Implementation Status and Key Decisions

Project implementation continues to progress steadily. The project has carried out marwa improvement works in the Mahmoudia canal command...
area in Beheira governorate, Abis El Gadida and Abis El Qadima (new and old Abis, respectively) and Kanoubeya. As of today the area covered in Abis amounts to some 2,649 feddans benefitting about 2,249 beneficiaries, and in Kanoubeya 1,737 feddans covered with improved marwa benefitting around 1,850 families.

As agreed in previous missions, the PMU has focused on implementing the on-farm demonstrations of improved agronomic and irrigation practices foreseen under the project, as well as continuing with training and farmers awareness activities. As of today, 22 farmer field school (FFS) were established both in Beheira and Kafr El Sheikh Governorates. During the summer season, 46 extension workers both female and male, were trained in the FFS methodology to provide advice and transfer knowledge in modern irrigation and agronomic practices to female and male farmers. The activities carried out in the summer focused on rice production in 20 FFSs and maize in 2 FFSs. Moreover, two testing plots were established in Sakha research station in Kafr El Sheikh and in Zarzoura station in Beheira to test the standard procedures of the System of Rice Intensification (SRI). Now that the season is over and all plots were harvested, an evaluation of the FFS is being carried out to assess its impact and lessons learned to improve the planning and methodology used in future extension and demonstration activities. The mission was pleased with the success achieved under these activities during the field visits. As such, it was agreed to build on the experiences gained to support expansion of the following activities:

(i) extend the FFS program to also cover the winter season;
(ii) carry out a number of farmer awareness and training activities during the remainder of the project life, covering topics such as role, structure and participation options of Marwa Committees; building capacity at the village level to ensure maintenance of the improved irrigation systems; marketing and adoption of modern irrigation systems for horticultural crops; and utilization of agriculture residues with particular focus on compost/rice straw reuse, and silage from corn; and
(iii) the PMU to proceed with the design of the demonstration site for horticulture crops using modern irrigation system.

Given the number of activities foreseen and the importance of extension, demonstration and training activities to ensure that full benefits can be derived from the construction of the new irrigation systems at the farm level, a full-time extension focal point has been appointed in the PMU with responsibility for the coordination and implementation of the training and demonstration activities. It was further agreed for the PMU to schedule monthly coordination meetings to ensure adequate planning of the various activities.

Risks

<table>
<thead>
<tr>
<th>Risk Category</th>
<th>Rating at Approval</th>
<th>Previous Rating</th>
<th>Current Rating</th>
</tr>
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<tbody>
<tr>
<td>Overall</td>
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</tr>
</tbody>
</table>

Results
Project Development Objective Indicators

Farmers' operating cost for applying irrigation water to their fields reduced (Amount(USD), Custom)

<table>
<thead>
<tr>
<th>Value</th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00</td>
<td>--</td>
<td>12.00</td>
<td>10.00</td>
<td></td>
</tr>
</tbody>
</table>

Date
- 10-Nov-2011
- 10-Apr-2014
- 19-Oct-2015
- 30-Jun-2016

Comments
Partial data have been analyzed to demonstrate the reduced cost of irrigation. While some farmers have indicated that their irrigation water use has decreased by up to 60 percent, especially when the marwa improvement is complemented by land leveling, the average reduction in the cost of irrigation is about 100 EGP.

Farmers' interest in adopting improved cropping practices increased (Percentage, Custom)

<table>
<thead>
<tr>
<th>Value</th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
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<tbody>
<tr>
<td>0.00</td>
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<td>70.00</td>
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</table>

Date
- 10-Nov-2011
- 10-Apr-2014
- 10-Apr-2014
- 30-Jun-2016

Comments
So far, adoption of improved cropping practices has been focused on Farmer Field Schools. The plan for this indicator is to undertake a survey towards the end of the project to better understand what percentage of the farmers are willing to continue to adopt the improved cropping practices.

Overall Comments

Intermediate Results Indicators

Equity in water distribution quantity and quality between farmers at the head and tail-end of the canal improved, and tailenders' use of polluted water from drains reduced (Percentage, Custom)

<table>
<thead>
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<th>Actual (Current)</th>
<th>End Target</th>
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<tr>
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</tbody>
</table>

Date
- 10-Nov-2011
- 10-Apr-2014
- 10-Apr-2014
- 30-Jun-2016
Overall Comments

Data on Financial Performance

Disbursements (by loan)

<table>
<thead>
<tr>
<th>Project</th>
<th>Loan/Credit/TF</th>
<th>Status</th>
<th>Currency</th>
<th>Original</th>
<th>Revised</th>
<th>Cancelled</th>
<th>Disbursed</th>
<th>Undisbursed</th>
<th>Disbursed</th>
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</thead>
<tbody>
<tr>
<td>P124683</td>
<td>TF-98199</td>
<td>Effective</td>
<td>USD</td>
<td>2.75</td>
<td>2.75</td>
<td>0.00</td>
<td>1.98</td>
<td>0.77</td>
<td>72%</td>
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Key Dates (by loan)

<table>
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<th>Project</th>
<th>Loan/Credit/TF</th>
<th>Status</th>
<th>Approval Date</th>
<th>Signing Date</th>
<th>Effectiveness Date</th>
<th>Orig. Closing Date</th>
<th>Rev. Closing Date</th>
</tr>
</thead>
</table>

Cumulative Disbursements

Restructuring History

There has been no restructuring to date.
## Related Project(s)

There are no related projects.