

Ministry of Water Resources and Irrigation  
US Agency for International Development  
Agricultural Policy Reform Program  
Environmental Policy and Institutional Strengthening Indefinite Quantity Contract

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**APRP – Water Policy Activity  
Contract PCE-I-00-96-00002-00  
Task Order 807**

**QUARTERLY REPORT  
(JANUARY-MARCH 2001)**

**Report No. 40**

**JULY 2001**

**QUARTERLY REPORT  
(JANUARY-MARCH 2001)**

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## I. SUMMARY

The EPIQ Water Policy Reform Program (Contract PCE-I-00-96-00002-00, Task Order 807) is responsible for advising and providing technical assistance to the Ministry of Water Resources and Irrigation (MWRI) of the Government of Egypt (GOE) with respect to improved policy assessment and planning, improved irrigation system management, and improved private sector participation. EPIQ is a component of the USAID Agricultural Policy Reform Program (APRP). EPIQ team members successfully completed Phase I of the Tranche IV Benchmarks and are currently implementing work plan activities related to the Tranche IV Phase II and Tranche V Benchmarks.

The Memorandum of Understanding (MOU) for Tranche IV was signed on 20 September 1999 and included four, two-year water policy benchmarks. These are:

- C.1. Reducing Mismatch of Irrigation Deliveries (since renamed Matching Irrigation Supplies with Demand)
- C.2. Urban Wastewater and Drainage Reuse.
- C.4. Irrigation Management Transfer.
- C.5. Revision of Law 12/1984 on Irrigation and Drainage.

Not listed above is Benchmark C.3, which was a one-year Benchmark that was successfully completed during the previous reporting period. The MWRI has sole responsibility for three of these benchmarks (C.2, C.4, C.5). The remaining benchmark (C.1 Mismatching) is a joint benchmark with the MALR. The benchmarks are multi-year benchmarks, which means they required partial completion in Phase 1 (December 2000) and final completion in Phase II (December 2001). One of the benchmarks is being coordinated by WPAU (C.5), two of the benchmarks are being coordinated by EPIQ (C.2, C.4); and EPIQ/RDI/PMU are jointly coordinating one benchmark (C.1).

The Tranche V MOU was not approved and signed at the end of the reporting period. The final draft Tranche V MOU contains three policy water benchmarks as follows:

- C.1 Integrated Water Management District
- C.2 Public Participation in Decision Making
- C.3 Environmental Management at MWRI

A joint decision was taken by USAID/EPIQ/WPAU early in the reporting period to proceed with the Tranche V benchmark work plan despite the lack of an approved MOU. The work plan was prepared and presented to the Steering Committee at a workshop held on 23-24 February. The Committee approved the work plan contingent on the final wording of the approved MOU.

Specific accomplishments- Tranche IV, Phase II Benchmarks:

***C.1. Matching Irrigation Supplies with Demands:***

MISD activities initiated in Phase I are being expanded by MWRI and MALR during 2001 to all districts within the four governorates containing a pilot district, i.e., Beheira, Beni Suef, Qena, and West Sharkia, including a total of 31 irrigation districts (26 new plus the 5 pilots). A significant amount of the EPIQ team's efforts on this benchmark this quarter centered on assistance in this expansion effort including holding a workshop for each governorate. The MISD work plan for 2001 was prepared and approved. The water monitoring programs initiated in Phase I continued in each of the five pilot districts. Planimeters are needed in each irrigation district to determine accurate command areas and the procurement process was begun. The processes of filling TDY positions and planning an awareness program were begun. Additional training needs were recognized in the area of computers, planimeters, and the MISD information transfer process. A plan to address these needs was developed.

### ***C.2. Urban Wastewater and Drainage Reuse***

The major efforts during the reporting period consisted of identifying members of the Working Group from the four Ministries involved, designing five pilot programs as required by the benchmark Verification Indicators, finalizing the annual work plan and commencing work on the five pilot programs. One of the pilot programs (using treated wastewater to grow ornamental trees in an urban area) requires a significant capital expenditure. The team prepared a detailed estimate of the required expenditure and participated in negotiating a cost-sharing plan among USAID, MWRI and MALR.

### ***C.4. Irrigation Management Transfer:***

Major benchmark activities initiated during the previous quarter were continued in accord with the established official work plan. During this quarter a number of major field and policy formulation activities were initiated in support of the benchmark objectives. The MWRI IMT benchmark working group has continued to take an active role in all activities and decisions. The working group is comprised of the EPIQ senior sociologist (task manager), representation from the WPAU (Eng. Nasser Ezzat, Eng. Amira EL Diasty, Eng. Moemen El Sharkawy), EPIQ Consultant Abdel Rahman Shalaby, MED (Eng. Ali Khalil Mohamed), IAS (Eng. Essam Barakat), EPADP (Dr. Mahmoud Moustafa), and Horizontal Expansion sector (Dr. Tarek Abdallah Ahmed). The MWRI IMT policy (Arabic, and English translation) was formally approved by His Excellency, Minister of MWRI. The Irrigation Advisory Service completed the formation BCWUAs at the four pilot IMT branch canal sites, using the BCWUA process and strategy adopted as policy by MWRI during Tranche III (1999-2000). The draft of the IMT socio-economic baseline survey was submitted and is undergoing final editing. A draft Memorandum of Understanding between the BCWUAs and MWRI was prepared by the IMT Working Group for review and adoption by the IMT Steering Committee. As part of the IMT planning process, multiple stakeholder focus group meetings were held in the selected pilot program areas. A proposal was made for the second part of the IMT international exposure process, with a study tour to Turkey. Preparations were made for a consultancy to design and develop an IMT public awareness campaign during the next quarter.

## Specific Accomplishments-Tranche V Benchmarks

### ***C.1. Integrated Water Management District***

The IWMD working group was formed with representatives from the MWRI, WPAU, and EPIQ. A number of working group meetings were held during the reporting period. The focus of these meetings was on developing a work plan that would be consistent with this controversial initiative. The IWMD work plan was completed and approved. A list of criteria for selection of pilot districts was developed and used to begin the process of selecting the two pilot districts required by the benchmark verification indicator. The process of filling TDY positions was begun. An Arabic language title for the integrated water management district was developed and agreed upon.

### ***C.2. Public Participation in Decision-Making (PP)***

The efforts undertaken in implementing the PP benchmark during the period focused on planning and initial implementation activities. The following were accomplished during the period:

- ◆ The working group (PPWG) was formally approved, formed and held its first orientation meeting on 11 January.
- ◆ The PPWG developed a benchmark work plan that included a visioning workshop, pilot program, and study tour. That work plan was formally approved at the EPIQ Implementation Workshop held on 23 and 24 February.
- ◆ The visioning workshop was divided into two parts; a two-day seminar for presentation of public participation principles to high-level participants with a broad range of interests, and a three-day workshop to train the PPWG in the details of conducting a public participation program. The seminar was held on 20 and 21 March and the workshop was held on 28-30 March. Both were conducted by Dr. James Creighton, an internationally recognized specialist in public participation. A draft work plan for conducting the public participation study was produced in the workshop.

- ◆ Pilot Study: Decision-Making regarding the cleaning and maintenance of two small canals, El Ragabiya Canal and the right bank Gannabiya No. 2 from Bahr Shebin Canal, in the El Santa Irrigation District, Gharbiya Directorate, was selected as the primary pilot issue.
- ◆ A study tour for MWRI officials was defined and planning for the tour commenced.

### ***C.3 Environmental Management***

The environmental management-working group was formed with members from MWRI, private sector interests and EEAA. The benchmark work plan was prepared and approved by the Steering Committee. The working group identified resources required to implement the benchmark work plan and prepared the required paper work to secure the services of local consultants and MWRI staff participation. The task manager initiated contact with EEAA in order to open lines of communication and to obtain EEAA representation in the group's activities. EEAA responded positively by sending a representative to the Implementation Workshop and by designating one of their key personnel to participate with the working group.

#### Other Activities/Important Events

The EPIQ Contractor commenced negotiations with USAID for exercising the first six months of the contract option period covering 1 October 2001 through 29 March 2001. A budget breakdown for the period and scope of work was prepared by the contractor and submitted in late February to USAID for review and approval.

A workshop was held in February to present the 2001 work plan for discussion and approval. The workshop attendees included H.E Minister Dr. Abu-Zeid and representative from USAID, MWRI, MALR, MOHP, NOPWASD and EEAA in addition to the project Steering Committee. The work plan was presented, discussed in detail and the Steering Committee subsequently approved the plan. Since the Tranche V MOU had not been finalized at the time, the Committee approval was contingent on the final wording of the approved MOU.

The EPIQ Team assisted MWRI with developing a vision of the future and in identifying the actions necessary to prepare to meet that vision. This activity was given a high priority by the Ministry because of the rapid changes taking place, and expected to take place in the near future as a result of the policy reforms implemented under the APRP Water Policy Program.

Dr. Doug Clark, EPIQ Project Coordinator, attended the project Implementation Workshop in February 2001.

## II. ACCOMPLISHMENTS DURING THE REPORT PERIOD

During the 1<sup>st</sup> quarter, January to March 2001, the EPIQ TA team worked with USAID, Ministry for Water Resources and Irrigation (MWRI), Ministry of Agriculture and Land Reclamation (MALR), Water Policy Advisory Unit (WPAU) and the other Agriculture Policy Reform Program (APRP) TA units on the implementation of the Tranche IV Phase II and Tranche V water policy benchmark activities. The other TA units include the Program Management Unit (PMU), Monitoring, Verification and Evaluation Unit (MVE), and the Reform Design and Implementation Unit (RDI).

### Benchmark Support-Tranche IV, Phase II

#### ***C.1. Matching Irrigation Supply and Demand (MWRI/MALR)***

Dr. Larry King, EPIQ Senior Irrigation Engineer, and Eng. Sarwat Fahmy, WPAU, have primary responsibility for this activity as co-task managers for the EPIQ/WPAU/WPRP team with support from EPIQ team members Dr. Ragab Abdel Azim, Irrigation Engineer, and Dr. Elsayed Mahdy, Water Resources Economist, and part-time TA support from Eng. Hussein Elwan, Head of Central Directorate for Water Distribution, MWRI, and Eng. Sanaa Abdel Rashid (CDWD/MWRI). Eng. Tarek Nada, Eng. Mohamed Hamed, and Eng. Mohamed El Margoshi of WPAU provide further technical assistance on a part-time base. While the formal title of this benchmark is “Reducing Mismatch of Irrigation Deliveries”, the working group as adopted the title “Matching Irrigation Supply and Demand” (MISD) to emphasize the positive aspects of this activity. The core MISD working group of this joint MWRI/MALR BM is composed of Dr. Larry King, Dr. Jane Gleason (RDI), Dr. Ragab Abdel Azim, Eng. Hussien Elwan, and Eng. Mohamed El Shaheed (Head, Economic Affairs Sector, MALR). The expanded joint group is the core group plus representatives from MWR, MALR, EPIQ, RDI and PMU, WPAU, as well as the Under Secretaries, General Directors, Inspectors, District Engineers and Agricultural Extensionists from the four selected directorates containing 31 irrigation districts within the four governorates: Sharkaiya, Beheira, Beni Suef and Qena/Luxor.

Activities carried out by the EPIQ team during the reporting period were:

- ◆ Work on implementation of MISD plan was continued within the five pilot districts on their delivery of water based on cropping pattern data collected by the extension agents for each branch canal of the irrigation district. Contact was maintained by email between the EPIQ team and the pilot district engineers. The water monitoring programs in these pilot districts established during 2000 are being continued including the regular electronic data transfer to Cairo offices.
- ◆ A draft MISD work plan for 2001 was prepared and presented at the APRP-WPRP Retreat, 5 February, at the Heliopolis Sheraton. The work plan was revised based on input obtained during the retreat and then presented, and approved at the APRP-WPRP Workshop, 23-24 February, at Ain El Sokhna.
- ◆ The program for expansion of MISD activities to all 31 districts (26 new plus the 5 pilots) in the four directorates was assisted by holding four joint MWRI/MALR expansion workshops: West Sharkiya (7-8 Feb), Qena (21-22 Feb), Beheira (28 Feb-1 Mar), and Beni Suef (20 Mar)
- ◆ Detailed documentation of the successes of Phase I MISD activities was prepared to assist RDI and PMU to help the MALR secure funds for their expansion activities in the four directorates.
- ◆ In the efforts to define the accurate command areas, it was found that adequate planimeters were not available in the irrigation districts and directorates. These tools are needed to determine areas from the detailed maps. The process of gathering information on locally available instruments was begun so that during the next quarter, specifications can be written and the equipment can be purchased.
- ◆ Terms of Reference including scopes of work for local and expatriate TDY positions were prepared. Contacts were started with potential candidates and the process of obtaining resumes and CVs was started.
- ◆ Initial plans for an awareness campaign were developed and discussions of these plans took place at several meetings.

- ◆ It was determined that additional training in the districts, especially the 26 new districts, was needed on computers, planimeters, and the MISD information transfer process. Planning was initiated to meet this need.

### ***C.2. Urban Wastewater and Drainage Reuse***

The MWRI/APRP wastewater task group leads the implementation of this benchmark. Dr. Zhongping Zhu, EPIQ co-task manager, and Eng. Nasser Ezzat, WPAU co-task manager, share responsibility for managing implementation activities. In year 2001, the task group includes: Eng. Hussein El Atfy and Dr. Hesham Kandil of MWRI Minister's Office, Eng. Mohamed Fathy, Eng. Hamza, Eng. Mohamed El Khazragy of MWRI EPADP, Dr. Ibrahim Ellassiouty and Dr. Ahmed Fakhry Khattab of EPIQ; Eng. Mohamed Hamed of WPAU; Dr. Seham Hendy of MOHP; Dr. Mamdouh Riad of MALR; Dr. Samia Galal of MEA, and Eng. Magda Gaballa and Eng. Mohsen Mamdouh of NOPWASD.

Activities carried out by the working group during the period included the following:

- ◆ Identifying and designing five pilot policy programs for the 2<sup>nd</sup> phase of the benchmark implementation in year 2001, based upon intensive discussion with representatives of MWRI, MALR, MOHP, MEA and NOPWASD. The five pilot programs selected for implementation are:
  1. Wastewater Treatment Plant Construction Priorities
  2. Agricultural Drain Classification
  3. Mansoura City Greenland Irrigation
  4. Health Awareness
  5. Management of Industrial Wastewater Discharge
- ◆ Finalizing benchmark work plan after the Tranche V Retreat and Tranche V work plan Workshop.

- ◆ Visiting Dakahlia local authorities (particularly the Public Economic Authority for Water and Wastewater) for pilot program development.
- ◆ Developing funding source for Pilot #3 (wastewater tree irrigation along Mansoura ring road).
- ◆ Designing Terms of Reference of local SSTAs, and re-organizing this year's task group members.
- ◆ Establishing technical designs of Pilot #1 (treatment priorities) and Pilot #2 (drain classifications) with EPADP and North and West Dakahlia Drainage Authorities.

#### ***C.4. Irrigation Management Transfer***

Dr. Robert Cardinali (task Manager) with support from the co-task manager of the MWRI Water Policy Advisory Unit, Eng. Mohamed Nasser Ezzat, is responsible for this activity.

The major accomplishments during the reporting period included:

- ◆ The benchmark-working group continued its formal meeting schedule and is comprised of the EPIQ Senior Sociologist (task manager), and representation from the WPAU (Eng. Nasser Ezzat, Eng. Amira El Diasty, Eng. Moamen El Sharkawy), MED (Eng. Ali Khalil Mohamed), IAS (Eng. Essam Barakat), EPADP (Dr. Mahmoud Moustafa), and Horizontal Expansion sector (Dr. Tarek Abdallah Ahmed).
- ◆ Multiple stakeholder focus group workshops were held involving farmers and ministry officials from the four pilot areas, at El Nazl (Dakahleya), El Shebab (Sharkaiya), South Tahrir (Beheira), and Beni Abed (El Minya). The purpose of the meetings was to continue discussions with stakeholders in formalizing the BCWUA transfer, and developing dialogue on cost sharing for O&M.
- ◆ The IMT socio-economic baseline survey draft manuscript was completed and will be finalized during the next quarter. The results of the study will be used

to assist in the implementation of the IMT benchmark, as well as provide baseline data for post-implementation impact assessment.

- ◆ The work plan for the Phase II portion of the IMT benchmark was completed and approved by the IMT Steering Committee.
- ◆ The Irrigation Advisory Service (IAS) under the Irrigation Department completed formation of Branch Canal Water User Associations at the four pilot IMT sites. The Under Secretary in each respective governorate has issued a decree formalizing the status of the BCWUA.

### ***C.5. Revision of Law 12***

The lead for this activity is with WPAU (Eng. Sarwat Fahmy and Eng. Nasser Ezzat). Dr. Ibrahim Ellassiouty (EPIQ Coordinator) is assisting. EPIQ has provided short-term TA for this activity through the EPIQ task order (Eng. Ahmed Maher, Local Irrigation Engineer and Dr. Mohamed Badran, local legal advisor). Two WPAU engineers are supporting the law 12 group (Eng. Amira El Diasty and Eng. Moemen EL Sharkawy).

The major accomplishments during the reporting period included:

- ◆ Members of the Revision of Law 12 work group were identified.
- ◆ A draft work plan for Revision of Law 12 Phase II was prepared and presented at the APRP-WPRP Retreat, 5 Feb. at the Heliopolis Sheraton.
- ◆ The work plan was revised, discussed and approved at the APRP-WPRP Workshop, 22-23 Feb. at Ain El Sokhna.
- ◆ The final draft of the modified law was prepared and submitted to MWRI.
- ◆ A review was begun of the articles of the executive regulations of Law 12/1984 and Law 213/1994 in order to identify articles requiring amendments or revision.

### **Benchmark Support-Tranche V**

### ***C.1 Integrated Water Management***

Dr. Larry King, EPIQ Senior Irrigation Engineer, and Eng. Sarwat Fahmy, WPAU, have primary responsibility for this activity as co-task managers for the EPIQ/WPAU/WPRP team with support from EPIQ team members Dr. Ragab Abdel Azim, Irrigation Engineer, Dr. Ibrahim Ellassiouty, Water Resource Management Specialist, Dr. Robert Cardinalli, Senior Sociologist, and Dr. Elsayed Mahdy, Water Resource Economist, and support from WPAU team members Eng. Tarek Nada, Eng. Mohamed Hamed, Eng. Amira El Diasty, and Eng. Moemen El Sharkawy. The IWMD Working Group is composed of the above-named individuals plus Eng. Ali Morsi, Head of Irrigation Department, and Eng. Mohamed Fathy, Head of Egyptian Public Authority for Drainage.

Activities carried out by the EPIQ/WPAU team during the reporting period were:

- ◆ Members of the IWMD Working Group were identified as listed above.
- ◆ A draft IWMD work plan was prepared and presented at the APRP-WPRP Retreat, 5 Feb, at the Heliopolis Sheraton. The work plan was revised, presented, and approved at the APRP-WPRP Workshop, 23-24 Feb, at Ain El Sokhna.
- ◆ A list of criteria for selection of pilot districts was developed and used to begin the process of selecting the two pilot districts required by Verification Indicator 2.
- ◆ A review was begun of existing studies and literature on concepts of integrated water management that have been completed in Egypt.
- ◆ Terms of Reference including scopes of work for local and expatriate TDY positions were prepared. Contacts were started with potential candidates and the process of obtaining resumes and CVs was started. One candidate for the Irrigation District Management Specialist expatriate TDY was recommended and approval for hiring him as requested.
- ◆ Information was gathered for the four irrigation districts nominated to be considered as pilot districts for IWMD and plans were made for field visits to these nominated districts.

### ***C.2. Public Participation in Decision-Making***

Adrian Hutchens, EPIQ co-task manager, and Eng. Sarwat Fahmy, WPAU co-task manager, share responsibility for managing this benchmark. They are supported by the remainder of the Public Participation Work Group (PPWG) who are: Dr. Elsayed Mahdy, EPIQ Water Resource Economist; Eng. Hussein El Atfy, Undersecretary of Minister's Office; Eng. Salah El Shazly, Undersecretary of Central Administration for Complaints; Dr. Hesham Kandil, Director for Technology and Information; Dr. Hesham Moustafa, Head Water Communication Unit; Eng. Essam Barakat, Undersecretary of Irrigation Advisory Service; Eng. Amira El Diasty, WPAU Technical Staff; and Moemen EL Sharkawy, WPAU Technical Staff.

Activities concluded by the EPIQ/WPAU team during the reporting period were:

- ◆ The working group (PPWG) was formally approved and held its first orientation meeting on 11 January.
- ◆ The PPWG developed a benchmark work plan that included a visioning workshop, pilot program, and study tour. That work plan was presented at the APRP-WPRP Retreat on 5 February. The work plan was revised based on the retreat comments and formally approved at the EPIQ Implementation Workshop held on 23 and 24 February.
- ◆ The visioning workshop identified in the work plan was divided into two parts; a two-day seminar for presentation of public participation principles to high-level participants with a broad range of interests, and a three-day workshop to train the PPWG in the details of conducting a public participation program. The seminar was held on 20 and 21 March and the workshop was held on 28-30 March. Both were conducted by Dr. James Creighton, an internationally recognized specialist in public participation. A draft work plan for conducting the public participation study was produced during the workshop.
- ◆ Pilot Study: Decision-Making regarding the cleaning and maintenance of two small canals, El Ragabiya Canal and the right bank Gannabiya No. 2 from Bahr Shebin

Canal, in the El Santa Irrigation District, Gharbiya Directorate, was selected as the primary pilot issue.

- ◆ A study tour for MWRI officials was defined and planning for the tour commenced.

### ***C.3. Environmental Management***

The MWRI/APRP environmental task group leads the implementation of this benchmark. Eng. Nasser Ezzat, WPAU co-task manager, and Dr. Zhogping Zhu, EPIQ co-task manager, share responsibility for managing implementation activities. The task group members are: Eng. Moemen El Sharkawy and Eng. Mohamed Hamed of WPAU; Dr. Ibrahim Ellassiouty of EPIQ; Dr. Diaan El Qousy, Dr. Hesham Kandil, and Eng. Hussein EL Atfy of MWRI; Dr. Ahmed Gaber, consultant; and an official representative from EEAA to be identified.

The major accomplishments during the reporting period included:

- ◆ Designing the benchmark and its work plan.
- ◆ Finalizing the benchmark work plan after the Tranche V Retreat and Tranche V Implementation Workshop.
- ◆ Conducting outreach with EEAA, MWRI officials, and private consultants for the appropriateness and effectiveness of the MWRI EIA effort.
- ◆ Selecting local SSTAs, developing Terms of References, and establishing the benchmark task group and local SSTAs.
- ◆ Planning a US Study Tour.

### ***Studies & Benchmark Related Activities***

The terms of reference for the EPIQ task order is structured around a results package, jointly designed by USAID and MWRI, consisting of integrated water policy and

institutional reforms. To support this results package, the EPIQ team is able to carry out studies that support policy reform or have the potential of leading to future policy benchmarks. The EPIQ team is also involved in supporting select activities that relate directly to implementation of previous water policy benchmarks. Non-benchmark activities that fall into this category are discussed below.

### Impact Assessment

Adrian Hutchens (EPIQ economist) is coordinating this activity with support from Dr. Elsayed Mahdy (EPIQ economist). Due to the heavy workload related to commencement of Tranche V benchmark activities, no progress was made on this activity during the quarter.

### Knowledge, Attitudes and Practices Survey (KAP)

Dr. Robert Cardinalli (EPIQ Sociologist) is coordinating this study in cooperation with WPAU and the Ministry's Water Communication Study. This survey is intended to be a follow-on to the previous KAP survey conducted by Greencom in 1998. It is intended to provide information regarding the effectiveness of the policy reforms implemented under APRP and also provide input to the Impact Analysis. No activities related to the survey were undertaken during the reporting period.

### Environment Related Study

During the process of negotiating the contract option period, it was jointly decided by USAID and the EPIQ contractor that a new study related to environmental issues faced by MWRI should be defined and undertaken. Several alternatives were identified and were under discussion at the end of the reporting period.

### Workshops

The EPIQ/WPAU Team along with the USAID Project CTO and several senior MWRI staff participated in a one-day Retreat on 5 February at the Sheraton Heliopolis Hotel. The purpose of this retreat was to consider the draft work plan and solicit crosscutting review comments as the basis to arrive at a final draft for presentation at the year 2001 implementation workshop.

EPIQ sponsored a Tranche IV, Phase II, and Tranche V Implementation Workshop on 23-24 February at the Stella Di Mare Hotel in Ain El Sokhna. The purpose of the workshop was to present the final draft work plan to the Steering Committee and a diverse group of interested stakeholders. The participation included the EPIQ and WPAU staff, the project Steering Committee, USAID, representatives from four other Ministries (MOHP, NOPWASD, MALR, EEAA) and selected senior staff from MWRI. The workshop was also honored by the presence of, and active participation of H.E. Minister Abu-Zeid.

EPIQ, jointly with MALR sponsored four MISD workshops in the four Directorates where the MISD activities are being expanded from the pilot areas to the entire Directorate. The workshops were held in Tanta (2), Luxor, and Beni Suef.

### **APRP/EPIQ Coordination**

Close coordination between the EPIQ team and other units of APRP, USAID and MWRI continued.

Members of the EPIQ WPRP team participated in the weekly APRP coordination meetings and the PPC meetings.

Regular water group coordination meetings were held at MWRI. USAID Ag policy water staff, WPAU, and EPIQ WPRP participated.

Regular meetings of all benchmark-working groups were held throughout the quarter. There were also numerous field trips and meetings with governorate and district level personnel.

### **Reports**

No reports were issued during the reporting period:

### **III. ACTIVITIES PLANNED FOR NEXT QUARTER**

#### Benchmark Support-Tranche IV, Phase II

##### ***C.1: Reducing Mismatch of Irrigation Deliveries***

The following activities are planned for the next quarter:

- ◆ Continue to provide technical assistance to the MWRI and MALR for expansion of MISD activities to cover all irrigation districts in each of the four pilot directorates (Beheira, Beni Suef, Qena, and West Sharkaiya) primarily through training on computers, planimeters, and the MISD information transfer process.
- ◆ Continue assistance to MALR through RDI to ensure the MISD data gathering and information transfer process is sustainable, effective, and efficient and that the information on cropping patterns and calendars is accurate, timely, and adequate for matching irrigation deliveries to water demands.
- ◆ Continue the water monitoring programs of the five pilot districts including periodic electronic data transfer to Cairo offices and begin detailed analysis of the data collected in both Phases I and II of this benchmark.
- ◆ Mobilize the local and expatriate TDY staff required to assist in the MISD efforts.
- ◆ Assist MWRI/MALR personnel in the five pilot districts in use of purchased maps of scale 1:25000 and planimeters for agreeing upon an accurate command area of each canal.
- ◆ Plan and conduct workshops, seminars, and/or other training sessions for pilot district/directorate level MWRI and MALR personnel.
- ◆ Finalize plans for the MISD awareness campaign including details of funding split between EPIQ and RDI.
- ◆ Begin development of awareness materials and use these in meetings with the agricultural extension hood workers.

- ◆ When the computers are delivered to the new districts, established email service connecting the district and directorate levels of MWRI. Encourage email communication between districts to overcome common problems. Establish a two-way information flow path within the MWRI from the district to the central level, and determine the role of each organization along this path.
- ◆ With the TDY Irrigation Scheduling specialist's guidance, begin to develop (or adopt) a simple model for calculation of crop consumptive use at the district level and for scheduling water releases to branch canals within the district according to semimonthly MALR cropping data.

### ***C.2. Urban Wastewater Discharge and Reuse***

The following activities are planned for the next quarter:

- ◆ Develop a close and cooperative working relationship with Dakahlia local authorities for pilot programs.
- ◆ Coordinate with MALR Forest Department to construct drip irrigation system and to plant trees along the Mansoura ring road in late April (Pilot #3)
- ◆ Coordinate with MOHP Environmental Health Department to organize the Mansoura Wastewater-reuse Health Protection Workshop in Mid-May (Pilot #4)
- ◆ Coordinate with MEA consultant to establish quantitative estimates of industrial wastewater discharge in Dakahlia in early May (Pilot #5)
- ◆ Coordinate with EPADP and NOPWASD to draft classifications and treatment priorities in late May (Pilot # 1 and Pilot # 2)
- ◆ Consolidate task group for work efficiency and sustainability.

### ***C.4 Irrigation Management Transfer***

The following activities are planned for the next quarter:

- ◆ The IMT benchmark working group will continue to meet regularly and report to the IMT Steering Committee on tasks associated with development of the IMT policy and its phased plan for implementation.
- ◆ Study on socio-economic conditions, pre-implementation of criteria and assessment of land classifications and tenureship patterns (a benchmark requirement) will be completed by May 2001.
- ◆ Negotiation will take place with the pilot BCWUAs for technical rehabilitation requirements (a benchmark requirement) for the four pilot canals. Recommendations will be presented to the stakeholders at focus group meetings. Following these stakeholders focus group meetings, the results will be presented to the Steering Committee for a final decision and further action.
- ◆ Memoranda of Understanding (MOUs) to be finalized between the BCWUAs and MWRI in major signing ceremonies, outlining the terms and conditions of the IMT program in each case, and work agenda tailored to the specific needs of each.
- ◆ Submittal for approval of plan for IMT study tour to Turkey in September 2001.

### ***C.5 Revision of Law 12***

The following activities are planned for the next quarter:

- ◆ Investigate the different articles in the proposed modified law to find out:
  1. Issues that need to be defined.
  2. Articles that need more details.
  3. Issues that need explanation or clarification.
  4. Works that require licenses.
- ◆ Prepare a first draft for the modified executive regulations.
- ◆ Hold several meetings with MWRI key position personnel and other stakeholders to solicit their feedback on the proposed new regulations.

## Benchmark Support-Tranche V

### ***C.1 Integrated Water Management District***

The following activities are planned for next quarter:

- ◆ Complete field visits to the four districts nominated as pilot districts.
- ◆ Select the two pilot districts and begin detailed assessment of conditions and practices in each district.
- ◆ Obtain and install computers and establish email access in the two pilot districts and in their corresponding directorates.
- ◆ Hire the following local and expatriate TDY staff to assist in the IWMD efforts: Computer Training Specialist (Local), and Water Monitoring Specialist (Expatriate).
- ◆ Identify and gather any additional needed information.
- ◆ Identify workshop and training needs in the pilot districts and begin conducting workshops and training programs.
- ◆ Develop awareness packages for the primary stakeholders – the MWRI engineers and technicians.
- ◆ Develop detailed work plans for each pilot district including schedules for workshop/training activities and incorporating a mechanism for continuing technical, operational, and managerial assistance to the districts following initial training of pilot district/directorate staff on IWMD concepts.
- ◆ Begin to develop a clear statement of definition as to exactly what constitutes an Integrated Water Management District.
- ◆ Develop and begin testing initial plans for an organizational/institutional structure that will best support integrated water management in the two pilot districts and will include linkages and relationships between irrigation management and the IWMD.

### ***C.2 Public Participation in Decision Making***

The following activities are planned for the next quarter:

- ◆ Identification of tasks, timeline for performance, and assignment of responsibilities for carrying out the pilot study will be completed during April.
- ◆ Interviews and focus group sessions will be held in the study area during mid-April to the end of May to identify stakeholder issues (concerns), and criteria for resolving those issues.
- ◆ A workshop to finalize agreement on the key issues and criteria for resolution of those issues will be held in the first week of June.
- ◆ Development of alternative actions for resolving identified issues will be accomplished through meetings with stakeholders from mid-June to mid-July.

### ***C.3 Environmental Management***

The following activities are planned for the next period:

- ◆ Coordinate SSTAs to investigate and document the history, current status, and operation mechanisms of the MWRI environmental management effort in late April and early May.
- ◆ Review the EIA implementation experience in other selected Ministries in May.
- ◆ Coordinate SSTAs to study Nile water environment specific issues and identify suitable water activity categorizations for water sector EIA purpose.
- ◆ Coordinate SSTAs to draft the framework of MWRI EIA Guidelines in late May and early June.
- ◆ Organize an EIA Discussion Workshop with MWRI officials.
- ◆ Consolidate the task group.
- ◆ Establish cooperation with EEAA on the benchmark implementation.

### **Studies and Other Activities**

<u>Impact Analysis:</u>	No activity Planed
<u>KAP Survey:</u>	Begin procurement of subcontractor services.
<u>Environmental Related Study:</u>	Finalize scope of work and obtain agreement of USAID and MWRI.

#### **IV. PROBLEMS AND ISSUES**

No serious problems have arisen, however, there are a number of issues that are cause for concern and must be addressed by the Project Management Team in the near future. These are:

- ◆ The approval and hiring of individuals for the TDY positions must be completed soon so that we do not lose the best candidates to other commitments.
- ◆ Funding must be secured for purchasing the MISD planimeters for determining accurate command areas from the maps.
- ◆ Ways should be sought to provide cropping pattern forecasting that are accurate enough for water delivery but are less burdensome than current MISD data collection efforts in numbers of personnel required. The focus of these efforts must be sustainability of the program once the benchmark is finished.
- ◆ Funding of the pilot program to irrigate trees using treated wastewater has not been resolved to date and is delaying this activity.
- ◆ Selection of the IWMD pilot districts had not been completed at the end of the reporting period. This critical task must be completed early in the next quarter in order to avoid delays in other IWMD benchmark activities.

**V. IMPORTANT TRIPS, VISITS AND MEETINGS**

<b>DATE</b>	<b>LOCATION</b>	<b>PURPOSE</b>
Jan. 7	MWRI	MISD working group meeting
	MWRI	IMT working group meeting
Jan. 10	EPADP	UWDR team visit and Kickoff discussion
Jan. 11	MWRI 9 <sup>th</sup> floor conference room	PP working group meeting
Jan. 15	RDI conference room	MISD working group meeting
	MWRI 9 <sup>th</sup> floor conference room	Law 12 working group meeting
	MALR	UWDR meeting with MALR Forest Dept.
Jan. 16	MOHP	UWDR meeting with Environmental Health Dept.
	MWRI 9 <sup>th</sup> floor conference room	ENVM kickoff meeting
Jan. 17	MWRI 9 <sup>th</sup> floor conference room	IMT core group meeting
	MWRI	PPDM meeting with Dr. Hesham Kandil
Jan. 18	MWRI 9 <sup>th</sup> floor conference room	UWDR meeting with NOPWASD and EPADP
Jan. 22	MWRI 9 <sup>th</sup> floor conference room	Law 12 group meeting
Jan. 24	MWRI 9 <sup>th</sup> floor conference room	UWDR meeting with MWRI, EPADP and NOPWASD

DATE	LOCATION	PURPOSE
	MWRI 9 <sup>th</sup> floor conference room	MISD working group meeting
	MWRI	ENVM meeting with MWRI irrigation department
Jan. 25	MWRI 9 <sup>th</sup> floor conference room	PPDM work group meeting
Feb. 4	South Tahrir (Damanhour)	IMT Inaugural Focus Group meeting
Feb. 5	Sheraton Heliopolis	Tranche IV Phase 2, Tranche V BM Planning Retreat
Feb. 7	APRP	UWDR meeting with MVE, APRP
Feb. 7-8	Tanta	Joint MWRI/MALR MISD workshop
Feb. 11	EEAA	ENVM meeting with EIA sector
Feb. 12	MWRI 9 <sup>th</sup> floor conference room	PPDM working group meeting
	MWRI 9 <sup>th</sup> floor conference room	Law 12 working group meeting
Feb. 13	MWRI	IWMD working group meeting, irrigation dept.
	MWRI 9 <sup>th</sup> floor conference room	UWDR meeting with NOPWASD
Feb. 14	Mansoura	IMT Inaugural Focus group meeting
Feb. 20	MWRI 9 <sup>th</sup> floor conference room	DT2 assessment meetings
Feb. 21-22	Luxor	Joint MWRI/MALR MISD workshop
Feb. 23-24	Ain EL Sokhna	Tranche IV Phase 2 and Tranche V BM implementation workshop
Feb. 26	MWRI 9 <sup>th</sup> floor conference room	ENVM meeting with consultant candidates
	MWRI	Law 12 working group meeting, irrigation dept.
Feb. 28	El Minya	IMT focus group meeting in Beni Abied
Feb. 28-Mar. 1	Tanta	Joint MWRI/MALR/MISD workshop

<b>DATE</b>	<b>LOCATION</b>	<b>PURPOSE</b>
March 11	MWRI 9 <sup>th</sup> floor conference room	PPDM working group meeting
	MWRI 9 <sup>th</sup> floor conference room	UWDR meeting with EPADP consultants
	MWRI 9 <sup>th</sup> floor conference room	Law 12 working group meeting
March 13	MWRI 9 <sup>th</sup> floor conference room	MISD working group meeting
March 14-15	Mansoura	UWDR field trip with local consultants to Dakahlia Governorate
March 18	MWRI 9 <sup>th</sup> floor conference room	UWDR meeting with local consultants
	Beheira	IMT focus group meeting
March 19	MWRI 9 <sup>th</sup> floor conference room	Law 12 working group meeting
	MWRI 9 <sup>th</sup> floor conference room	ENVM meeting with local consultants
March 20	Beni Suef	Joint MWRI/MALR MISD expansion workshop
March 20-21	Marriott Hotel	PPDM visioning seminar
March 21-22	Mansoura	UWDR field trip with local consultants to Dakahlia
March 24	Sharkiya	Inaugural IMT meeting for EL Shebab BCWUA
	Mansoura	UWDR meeting with MAL representatives
	MWRI	IWMD working group meeting, irrigation dept.
March 28-30	Alexandria	PPDM visioning workshop

## **VI. STAFF LEVEL OF EFFORT**

The EPIQ resident team has a technical consulting staff of ten people (6 expatriate and 4 local professionals) and an administrative support staff of ten people.

The LTTA and STTA staffing list for the quarter is shown below:

### **RESIDENT STAFF**

#### **EXPATRIATE**

<b>NAME</b>	<b>POSITION</b>
Mr. Andrew Tczap	Chief of Party
Greg Olson	Administrative Officer
Dr. Zhongping Zhu	Senior Water Resources Engineer
Dr. Larry King	Senior Irrigation Engineer
Adrian Hutchens	Senior Water Economist
Dr. Robert Cardinalli	Senior Sociologist

#### **LOCAL EGYPTIAN**

<b>NAME</b>	<b>POSITION</b>
Dr. Ahmed F. Khattab	Co-Team Leader
Dr. Ibrahim Elassiouty	Senior Water Resources Management Specialist
Dr. Elsayed Mahdy	Economist
Eng. Ragab Abdel Azim	Drainage Engineer

## Short Term Staff during the Report Period

### EXPATRIATE

NAME	POSITION
Dr. James Creighton	Public Participation Specialist
Jeremy Salucka	Technical Editor
Mark Goldrup	Technical Editor

### LOCAL EGYPTIAN

NAME	POSITION
Hussein Elwan	Irrigation Management Specialist
Eng. Sanaa Abdel Rashid	Water Data Analysis Specialist
Eng. Hussein El Atfy	Senior Water Policy Specialist
Dr. Hesham Kandil	Senior Water Quality Specialist
Dr. Siham Hendy	Senior Public Health Specialist
Dr. Mamdouh Riad	Senior Forestry Specialist
Eng. Magda Gaballa	Senior Wastewater Treatment Specialist
Eng. Mohsen Mamdouh	Senior Wastewater Treatment Specialist
Eng. Abdel Rahman Shalaby	Senior Institutional Policy Specialist
Eng. Ahmed Maher Ghydan	Senior Irrigation Specialist
Dr. Mohamed Badran	Legal Specialist
Dr. Hesham Moustafa	Communications Specialist
Eng. Mohamed Fathy	Senior Drainage Specialist
Eng. Abdel Moniem Hamza	Drainage Engineer
Eng. Mahamed El Khazragy	Drainage Engineer
Eng. Essam Barakat	Senior IAS Specialist
Eng. Ali Morsi	Senior Irrigation Specialist
Eng. Salah El Shazly	Senior Institutional Specialist
Eng. Diaa El Qousy	Senior Water Resources Specialist
Eng. Ahmed Gaber	Environmental Consultant
Eng. Ali Hassan	Environmental Consultant
Eng. Amgad El Ansary	Environmental Consultant
Eng. Ashraf Ghanem	Environmental Consultant

## VII. STATUS OF FINANCES AND EXPENDITURES

Financial summary for 1<sup>st</sup> Quarter 2001 (January-March 2001)

	Itemized Budget	Prior Claimed	Current Claim	Claims to Date	Remaining Balance	Budget Claimed
<b>Direct Labor</b>	\$6,795,261	\$4,584,008	\$600,021	\$5,184,029	\$1,611,232	76%
<b>Travel and Transportation</b>	\$385,000	\$228,320	\$14,409	\$242,729	\$142,271	63%
<b>Per Diem</b>	\$235,281	\$197,068	\$23,987	\$221,055	\$14,226	94%
<b>Allowances</b>	\$1,233,887	\$874,760	\$133,722	\$1,008,482	\$225,405	82%
<b>Other Direct Costs</b>	\$1,668,793	\$1,067,113	\$122,941	\$1,190,054	\$379,949	71%
<b>Total</b>	\$10,318,222	\$6,951,270	\$895,080	\$7,846,349	\$2,375,218	76%

Source: IRG Invoice #44, #45, and #46

## VIII. LIST OF REPORTS

No.	NAME	DATE
1	APRP Tranche II Policy Benchmark Background Documentation	August 1997
2	Project Implementation Plan	October 1997
3	Annual Technical Progress Report (7 May-31 Dec 1997)	January 1998
4	Annual Work Plan (Jan.-Dec 1998)	April 1998
5	Quarterly Report (Jan.-March 1998)	April 1998
6	Assessment of Egypt's Rice Policy and Strategy for Water Manag.	June 1998
7	Egypt's Irrigation Improvement Program I. Performance Assessment II. Proposed National Strategy	June 1998
8	National Policy for Drainage Water Reuse	June 1998
9	Water User Association Formation Outside the Irrigation Improvement Program Area	June 1998
10	Hydrogeology of Deep Aquifers in the Western Desert and Sinai	August 1998
11	Quarterly Report (April-June 1998)	August 1998
12	WRRP Tranche III Benchmark Work Plan	November 1998
13	Quarterly Report (July-September 1998)	December 1998
14	Quarterly Report (October-December 1998)	January 1999
15	Quarterly Report (January-March 1999)	May 1999
16	Policies and Procedures for Free-Flowing Groundwater Management in Egypt's Western Desert	June 1999
17	Establishment of Branch Canal Water User Associations in the Egyptian Irrigation System	June 1999
18	Institutionalization of the Irrigation Advisory Service in the Ministry of Public Works and Water Resources	June 1999
19	Water Saving Through Utilization of Short Duration Rice Varieties: National Policy Package, 1999-2000	June 1999

<b>No.</b>	<b>NAME</b>	<b>DATE</b>
20	Intermediate Drainage Reuse in Bahr Bagar Drain Basin	June 1999
21	Revision of Law 48 of 1982 for the Protection of the Nile River and its Waterways from Pollution	June 1999
22	Short Duration Rice Variety Pilot Program Results	July 1999
23	Quarterly Report (April– June 1999)	August 1999
24	Tranche IV Water Policy Benchmark Implementation Plan (FY 99/00)	November 1999
25	Quarterly Report (July - September 1999)	November 1999
26	Rice Water Use Policy Phase1: Water Monitoring and Evaluation Program with Appendices	December 1999
27	Review of the Agricultural Sector Model of Egypt (ASME97): 1999 Version	December 1999
28	Quarterly Report (October-December 1999)	January 2000
29	Annual Report (January – December 1999)	February 2000
30	Quarterly Report (January- March 2000)	May 2000
31	Quarterly Report (April- June 2000)	August 2000
32	Quarterly Report (June-September 2001)	
33	Reducing Mismatch of Irrigation Deliveries, Phase I: Pilot Program	November 2000
34	Policies and Procedures for Improved Urban Wastewater Discharge and Reuse	November 2000
35	Water Management at the Directorate Level	November 2000
36	MWRI Policy on Irrigation Management Transfer (Phase I)	December 2000
37	Analysis and Review of Modifications in Law 12 of 1984 on Irrigation and Drainage	December 2000
38	Quarterly Report (October-December 2000)	May 2001
39	Irrigation Management Transfer Public Awareness Campaign Phase 1: Strategy	June 2001