

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

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

**QUARTERLY REPORT
(OCTOBER-DECEMBER 2000)**

Report No. 38

MAY 2001

**QUARTERLY REPORT
(OCTOBER-DECEMBER 2000)**

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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 are currently implementing work plan activities related to the Tranche IV Benchmarks.

The Memorandum of Understanding (MOU) for Tranche IV was signed on 20 September 1999. The Tranche IV water policy benchmark implementation work plan was reviewed and approved by the Steering Committee at a meeting held on 1 December 1999. The MOU includes five water policy benchmarks. These are:

- C.1. Reducing Mismatch of Irrigation Deliveries
- C.2. Urban Wastewater and Drainage Reuse
- C.3. Water Management at the Directorate Level
- C.4. Irrigation Management Transfer
- C.5. Revision of Law 12

The MWRI has sole responsibility for four of these benchmarks (C.2, C.3, C.4, C.5). The remaining benchmark (C.1 Mismatching) is a joint benchmark with the MALR. Four of 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). Two of the benchmarks are being coordinated by WPAU (C.3, 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).

Specific accomplishments:

C.1. Matching Irrigation supply with demands:

Regular periodic meetings at the EPIQ office with pilot irrigation district and directorate personnel were held to discuss MISD activities and provide training. Training was continued in each pilot district office on EXCEL spreadsheet software, internet access, and email including sending data electronically using email attachments. A proposal for expansion of MISD activities was approved within the MWRI. MISD activities will be expanded 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). The report of MISD Phase I activities was written and presented at the APRP Water Policy Program Tranche IV Benchmark Phase I final workshop in Alexandria and revised and printed as APRP-WPRP Report No. 33.

C.2. Urban Wastewater and Drainage Reuse:

Work during the quarter focused on completion of the year 1 benchmark activities. A brief report was prepared to document the California Study Tour that was completed last quarter. The draft benchmark final report with six appendices was written and presented at the APRP Water Policy Program Tranche IV, Phase I final workshop in Alexandria. The report was printed in final form after incorporation of the comments received at the workshop. Preparation of the work plan for Phase 2 of the benchmark was started during the period.

C.3. Water Management at the Directorate Level:

The basic work related to the benchmark pilot program was completed during the period. Visits were made to each of the two pilot directorates for coordination and final field testing of systems. One training course was conducted at each pilot directorate during the quarter. The draft benchmark final report was written and presented at the APRP Water Policy Program Tranche IV, Phase I final workshop in Alexandria. The report was finalized after incorporation of comments received at the workshop.

C.4. Irrigation Management Transfer:

During this quarter a number of major field and policy formulation activities were initiated in support of the benchmark objectives. The Irrigation Advisory Service made considerable progress in forming BCWUAs at the four pilot IMT branch canal sites, using the BCWUA process and strategy adopted as policy by MWRI. The IMT Study Tour to Mexico and California was conducted during Oct/Nov 2000. A physical system assessment was conducted at the four IMT pilot areas, to determine areas where systems improvements will be required prior to handing over sub-sections of the water management system to users. The socio-economic baseline survey continued in the four pilot areas, and will be completed during the first quarter of 2001. As part of the IMT planning process, multiple stakeholder focus group meetings were held in the selected program areas. Finally, the report of IMT Phase I activities was written and presented at the final workshop in Alexandria, revised to incorporate workshop comments and finalized.

C.5. Revision of Law 12:

WPAU is taking the lead on this benchmark. The benchmark working group met regularly during the period to continue their review of proposed modifications to the law. A stakeholder workshop was conducted to solicit feedback and to ensure that overlap and/or conflict with related laws is avoided. The final draft report of Phase I activities was written and presented at the final benchmark workshop held in Alexandria. The report was finalized after incorporation of comments received at the workshop.

Other Activities/Important Events

Dr. Doug Clark, EPIQ Project Coordinator, attended the project workshop in November 2000.

Dr. Jeff Fredericks, Water Policy Program COP departed the project in November.

Mr. Andrew Tczap, replacement COP took up his duties on 17 December 2000.

Ms. Sinikka DeHanas, Winrock Water Policy Program Coordinator visited the project in December 2000.

Mr. Henk Knipscheer, Winrock Coordinator of EPIQ Activities visited the project in December 2000.

Mr. Doug Clark, EPIQ Project Coordinator visited the project in December 2000.

II.ACCOMPLISHMENTS DURING THE REPORT PERIOD

During the 4th quarter, October to December 2000, 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 water policy benchmark activities and preparation of benchmarks for Tranche V. 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

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

Dr. Larry King, Senior Irrigation Engineer, has primary responsibility for this activity as task manager for the EPIQ/WPRP team with support from EPIQ team members Dr. Ragab Abdel Azim, Irrigation Engineer, and Dr. Elsayed Mahdy, Water Resource 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 Elmagoshi of WPAU provide further technical assistance on a part-time basis. The core MISD Working Group is composed of Dr. Larry King, Dr. Jane Gleason (RDI), Dr. Ragab Abdel Azim, Eng. Hussein Elwan, and Eng. Mohamed Elshahed (Head, Agro-Economic Affairs Sector, MALR). The expanded joint group is the core group plus representatives from MWRI, MALR, EPIQ, RDI and PMU, WPAU, as well as the Under Secretaries, General Directors, Inspectors, and District Engineers for the five selected pilot districts from the four governorates: Sharkia, Beheira, Beni Suef and Qena/Luxor.

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

- ◆ Discussions were continued with pilot district engineers on their use of the report delivered to the irrigation district from the joint MALR/MWRI database containing cropping pattern data collected by the extension agents. This report gives the area of each major crop within the command area of each branch canal of the irrigation district.
- ◆ Periodic meetings were held in the EPIQ office for MWRI pilot district and directorate level people to report on and discuss the MISD activities on water monitoring, water demands, data transfer and analysis, computer training, etc. Staff from Beheira, Beni Suef, and Sharkia attended these meetings twice each month, but because of travel distance, those from Qena/Luxor came only once each month.
- ◆ Contact by the EPIQ/WPRP team was maintained via email with each of the five pilot irrigation districts and the program of regular electronic data transfer to Cairo offices was continued.
- ◆ The proposal for expansion of MISD activities was approved within the MWRI. MISD activities will be expanded 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).

- ◆ The report of MISD Phase I activities was written and presented at the APRP Water Policy Program Tranche IV Benchmark Phase I final workshop in Alexandria and revised and printed as APRP-WPRP Report No. 33, Mismatch of Irrigation Deliveries, Phase I: Pilot Program.

C.2. Water Quality and Drainage Reuse

The EPIQ wastewater task group members, Dr. Zhongping Zhu (task manager), Dr. Ibrahim Elassiouty, and Dr. Ahmed Fakhry Khattab; with the participation of WPAU engineers, Tarek Nada and Mohamed Hamed; assisted by EPIQ economists, Mr. Adrian Hutchens and Dr. Elasyed Mahdy; and supported by local specialists, Eng. Hussein El Atfy (MWRI), Dr. Hesham Kandil (MWRI), Eng. Yehia Abdel Aziz (MWRI consultant), Dr. Siham Hendy (MOHP), Dr. Mamdouh Riad (MALR), Eng. Magda Gaballa (NOPWASD), Eng. Mohsen Mamdouh (NOPWASD), and Dr. Ahmed Gamal Eldin (MEA), are responsible for this activity.

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

- ◆ Discussion and consultation with MWRI, NOPWASD, MOHP, and EEAA representatives for the development of commonly agreed policies in urban wastewater discharge and reuse.
- ◆ Revision and publication of six appendix reports from five involved ministries.
- ◆ Development and revision of benchmark final report.
- ◆ Revision and publication of the California Study Tour.
- ◆ Preparation of, and presentation to, the Tranche IV Benchmarks Final Workshop held on Nov. 17-18, Alexandria.
- ◆ Revision of benchmark final report based upon MWRI Steering Committee's comments.
- ◆ MWRI Minister's approval of policy recommendations.
- ◆ Submission of recommended policies and procedures to the Cabinet according to the benchmark verification requirements.

C.3. Water Management at the Directorate Level

The Water Management task group members, Eng. Sarwat Fahmy (Task Manager), Eng. Soliman Abu-Zeid, Eng. Amr Hafez and Eng. Alaa Hassan continued to meet periodically to coordinate and monitor activities.

The major accomplishments during the reporting period included:

- Conducted 64 flow measurements at Sharqya.
- Conducted 80 flow measurements at Qena.
- Reviewed results of the flow measurement program.
- Conducted training for Sharqya and Qena Directorate staff Telemetry Software Utilization in Water Management.
- The draft final report was written and presented at the Water Policy Program Workshop. The report was finalized after incorporating comments received at the workshop.

C.4. Irrigation Management Transfer

Dr. Robert Cardinalli (task manager) with support with Eng. Mohamed Nasser Ezzat (WPAU) is responsible for this activity. Two additional WPAU engineers joined the IMT group (Eng. Amira Abdel Hady, and Eng. Moemen El Sharkawy). Short term local TA was provided by Eng. Abdel Rahman Shalaby (Senior Institutional Policy Specialist) and Eng. Essam Barakat (Senior Participatory Irrigation Management Specialist). The benchmark working group is comprised of the EPIQ Senior Sociologist (task manager), and representation from the WPAU (Eng. Nasser Ezzat, Eng. Amira Abdel Hady, Eng. Moemen EL Sharkawy), MED (Eng. Ali Khalil Mohamed), IAS (Eng. Essam Barakat), EPADP (Dr. Mahmoud Moustafa), and Horizontal Expansion sector (Dr. Tarek Abdallah Ahmed).

The major accomplishments during the reporting period included:

- ◆ A preliminary assessment was carried out in the four pilot areas to determine what improvements would be required prior to handing over O&M responsibilities to the private sector/user entities. The EPIQ Institutional Policy Specialist and Senior Irrigation Engineer were responsible for information gathering, field investigations, analysis and reporting on recommendations to the Steering Committee.
- ◆ The benchmark working group continued its formal meeting schedule and is comprised of the EPIQ Senior Sociologist (task manager), and representation from the WPUA (Eng. Mohamed), IAS (Eng. Essam Barakat), EPADP (Dr. Mahmoud Moustafa), and Horizontal Expansion sector (Dr. Tarek Abdalla Ahmed).
- ◆ Multiple stakeholder focus group workshops were held involving farmers and ministry officials from the four pilot areas at El Shebab (Sharkaiya), South Tahrir (Beheira), Beni Abed (El Minya).
- ◆ A scio-economic baseline survey initiated during the previous quarter was continued.
- ◆ A study tour on Irrigation Management Transfer to Mexico and California was successfully undertaken, and took place on Oct/Nov. 2000.
- ◆ The Irrigation Advisory Service (IAS) under the Irrigation Department made major headway in forming Branch Canal Water User Associations at the four pilot IMT sites. A field program was developed in consultation with the stakeholders, and work is expected to continue through March 2001, after which

time the undersecretary in each governorate will issue a decree formalizing the status of the BCWUA.

- ◆ MWRI issued a formal decree adopting a policy on Irrigation Management Transfer. The policy reads:
In a phased process of application, the MWRI will transfer selected sub-sections of Egypt's irrigation and drainage network to users and/or the private sector acting on behalf of the users.
- ◆ The IMT Implementation Plan for expansion beyond the initial pilot phase was prepared. This plan calls for full implementation to be completed by year 2022.
- ◆ The draft final report was prepared and presented at the Water Policy Program Workshop held in Alexandria. The report was finalized after incorporating comments.

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, Eng. Yehia Abdel Aziz-local drainage engineer, and Dr. Mohamed Badran-local legal advisor). Two WPAU engineers supported the Law 12 group (Amira Abdel Hady, and Moemen El Sharkawy).

The major accomplishments during the reporting period included:

- ◆ The benchmark-working group under the leadership of WPAU task manager met regularly to review the modifications proposed in the law.
- ◆ Stakeholders were contacted to discuss the changes proposed in the law in order to avoid any conflict or overlap among the different laws dealing with water management.
- ◆ A stakeholder workshop was held to solicit stakeholder feedback on the proposed changes in the law and to discuss proposals being developed to improve compliance with Law 12/1984 on water management. A total of 50 stakeholders participated in the workshop.
- ◆ An analysis and review of modified law 12 were completed and discussed in Tranche IV Benchmark Phase I final workshop held in Alexandria November 17-18, 2000. The final report, incorporating workshop comments, was finalized and published during the reporting period.

Studies/Implementation 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.

Impact Assessment (EPIQ)

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

Tranche V Preparation

Work continued on developing the Tranche V water policy benchmarks. In addition to the four multi-year benchmarks from Tranche IV, three new benchmarks have been proposed and are under review:

- ◆ Integrated Water Management District
- ◆ Public Participation in Decision-Making
- ◆ Environmental Management at MWRI

Workshops

EPIQ sponsored an Urban Wastewater and Drainage Reuse workshop on 2-3 November at the Stella Di Mare Hotel in Ain Sokhna. The purpose of the workshop was to allow the working group members to finalize the Tranche IV Phase I report and to begin planning the Phase II work plan.

EPIQ sponsored one day Law 12 Stakeholders Workshop at the Conrad Hotel in Cairo. The purpose of the workshop was to solicit stakeholder input to the proposed revisions to Law 12.

EPIQ sponsored a workshop on 17-18 November at the Palestine Hotel in Alexandria. The purpose of the workshop was to present the results of benchmark activities undertaken during 2000 and obtain the Steering Committee approval of the year's results. A total of 43 participants attended with four Ministries represented.

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 the mismatch, wastewater, IMT and Law 12 working groups were held throughout the quarter. There were also numerous field trips and meetings with governorate and district level personnel.

Reports

The following reports were issued during the reporting period:

- ◆ **No. 33**
“REDUCING MISMATCH OF IRRIGATION DELIVERIES, PHASE I: PILOT PROGRAM”
- ◆ **No. 34**
“POLICIES AND PROCEDURES FOR IMPROVED URBAN WASTEWATER DISCHARGE AND REUSE”
- ◆ **No. 35**
“WATER MANAGEMENT AT THE DIRECTORATE LEVEL”
- ◆ **No. 36**
“MWRI POLICY ON IRRIGATION MANAGEMENT TRANSFER (PHASE I)”
- ◆ **No. 37**
“ANALYSIS AND REVIEW OF MODIFICATIONS IN LAW 12 OF 1984 ON IRRIGATION AND DRAINAGE”

III. ACTIVITIES PLANNED FOR NEXT QUARTER

Benchmark Support

C.1: Reducing Mismatch of Irrigation Deliveries

The following activities are planned for next quarter:

- ◆ 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 Sharkia) by holding expansion workshops for each of the four directorates.
- ◆ Continue assistance to MALR through RDI to ensure that the MISD data gathering and information transfer process is suitable, effective, and efficient and that the information on cropping patterns and calendars is accurate, timely, and adequate for matching deliveries to water demands.
- ◆ Continue the water monitoring programs of the five pilot districts.
- ◆ Prepare draft MISD work plan for 2001 and present it at the APRP-WPRP Retreat.
- ◆ Revise MISD work plan, present it at the APRP-WPRP Workshop, and gain final approval of the work plan.
- ◆ Assist MWRI/MALR personnel in the five pilot districts in use of purchased maps of scale 1:2500 for agreeing on an accurate command area of each canal.

- ◆ Identify additional workshop/seminar/training needs for pilot district/directorate level MWRI and MALR personnel.
- ◆ Begin development of awareness packages and/or seminars for local farmers and cooperatives.
- ◆ Begin extending email service to the directorate level of MWRI.

C.2: Water Quality and Drainage Reuse

The following activities are planned for next quarter:

- ◆ Select policy pilot programs for phase 2 in year 2001.
- ◆ Prepare benchmark work plan for phase 2 in year 2001.
- ◆ Continue and revive the inter-ministry task group by the type and importance of the work in the pilot activities in year 2001.
- ◆ Explore the ways and mechanisms to sustain the cooperation among different ministries and agencies in and after year 2001.

C.3. Water Management at the Directorate Level

This benchmark was completed at the end of the reporting period and therefore there will be no continuing activity.

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.
- ◆ Completion of study on socio-economic conditions, pre-implementation on criteria and assessment of land classifications and tenureship patterns (a benchmark requirement) will be completed by March 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 meeting to be held in February/March. Following these stakeholders focus group meetings, the results will be presented to the Steering Committee for a final decision and further action.
- ◆ Submittal for approval of plan for IMT study tour to Turkey mid-2001.
- ◆ The IAS to complete formation of BCWUAs at the four pilot sites, and submit reports for each BCWUA along with detailed process documentation.

C.5: Revision of Law 12

The following activities are planned for the next quarter:

- ◆ Develop a draft work plan for revision of law 12 phase 2 to be discussed in the Tranche IV phase 2, Tranche 5 Planning Retreat that will be held in Cairo.
- ◆ Prepare a detailed work plan to be discussed in Tranche IV phase 2, Tranche V benchmark Implementation Workshop that will be held in February 2001.
- ◆ Prepare the final draft of the modified law in order to be submitted to MWRI by March 31, 2001.
- ◆ Review articles of the executive regulations of law 12 and law 213 in order to identify articles requiring amendment or revision.

Studies and Other Activities

Studies to be conducted during the remainder of the program will be identified during the next reporting period.

Other Activities

Tranche IV, Phase II and Tranche V

A workshop is planned during February to present the Tranche IV Phase II and Tranche V work plan to the MWRI Steering Committee.

IV. PROBLEMS AND ISSUES

One problem to be overcome in the expansion of MISD activities is the identification of the source and amount of needed budget within the MALR.

V. IMPORTANT TRIPS, VISITS AND MEETINGS

DATE	LOCATION	PURPOSE
Sept. 3-4	Ain Shams University	Training of IMT socio-economic survey enumerators
Sept. 4	1 st floor MWRI	IMT working group meeting at 9:30 AM
	MWRI	MISD working group meeting with Eng. Hussein Elwan's office
Sept.5	MWRI 9 th floor conference room	MISD meeting, 5 pilot irrigation districts at 9 AM-1 PM
	MWRI 9 th floor conference room	IMT BCWUA planning meeting at 10:00AM
Sept. 6	MWRI 9 th floor conference room	MISD meeting, Qena/Luxor pilot district at 9AM-1PM
	MWRI 9 th floor conference room	IMT working group meeting at 10AM
	USAID	Tranche V briefing at 12 noon
Sept 6- 7	Mansoura	IMT socio-economic survey data collection
Sept 7		IMT BCWUA planning meeting at 10 AM
	Mansoura	Economists' field trip to IMT pilot area
Sept 8-10	Minya	IMT socio-economic survey
Sept 11	MALR	Wastewater treatment and reuse meeting on forest irrigation
Sept 11-12	Sharkiya	IMT socio-economic survey
Sept 11-13	Qena	MSM coordination/software installation field trip
Sept 12	Sharkiya	Economists' field trip to IMT pilot area
Sept 13	MWRI 9 th floor conference room	Tranche IV water group meeting at 10 AM
	MWRI 9 th floor conference room	Law 12 working group meeting at 12 noon
Sept 13-14	Beheira	IMT socio-economic survey
Sept 14	DT2	August 2000 water quality study tour closure meeting
		Law 12 working group meeting at 2 PM
Sept 18	MWRI 9 th floor conference room	Law 12 working group meeting at 12 noon
	Beheira	MISD computer installation field trip to Abu Hommos
	DT2	IMT study tour initial meeting at 1 PM
Sept 19	MWRI 9 th floor conference room	MISD meeting, 3 pilot irrigation districts at 9:30 AM-1 PM
Sept 20-21	Dakahlia governorate	Wastewater effluent reuse pilot field trip to Gamasa
	Beheira, Sharkiay,	IMT branch canal formation initial meetings

DATE	LOCATION	PURPOSE
	Mansoura, Minya	
Sept 25	Cairo Sheraton Hotel	Antiquities and agricultural policy workshop at 9 AM-3 PM
	MWRI 9 th floor conference room	Law 12 working group meeting at 12 noon
Sept 26	MWRI 1 st floor library	MWRI policy committee meeting at 10 AM
Sept 27	MWRI 9 th floor conference room	IMT physical assessment review meeting at 10 AM
	Sharkiya	Water management flow measurement field trip
Sept 28	Beni Suef	MISD computer installation field trip
Sept 30-1	Luxor/Qena	MISD computer installation field trip
Oct	Beheira, Sharkiya, Mansoura, Minya	IMT branch canal formation meetings
Oct 3	MALR	WWTR meeting with MALR afforestation at 1 PM
	MWRI 9 th floor conference room	MISD meetings, 5 pilot irrigation districts
Oct 4	MWRI 9 th floor conference room	MISD meetings, 2 pilot irrigation districts at 9 AM
Oct 9	MWRI 9 th floor conference room	IAS monthly review meeting, IMT BCWUAs at 10 AM
Oct 11	MWRI	Impact assessment team meeting with Dr. Hani Afifi, FAO consultant, and Dr. Soud Al Khafif, consultant to HE Minister of MWRI
	MWRI	Impact assessment team coordination meeting with IIP economist
	MOHP environmental center	WWTR meeting with MOHP at 9 AM
Oct 15	APRP	MISD working group meeting at 10 AM
	Water communication unit conference room	IMT task group meeting at 10 AM
Oct 16	Zenien wastewater treatment plant	WWTR site visit to Zenien wastewater treatment plant at 1 PM
Oct 18	DT2	IMT study tour pre-departure meeting at 2-4 PM
Oct 19	MWRI 9 th floor conference room	WWTR meeting with NOPASD at 1 PM
Oct 21- Nov 5	Mexica/USA	IMT study tour
Oct 24	MWRI 9 th floor conference room	MISD meeting with 3 pilot irrigation district (Behiera, Beni Suef, Sharkiya) at 9 AM-1 PM
	MWRI 9 th floor conference room	IMT socio-economic survey meeting with Dr. Ashraf at 10 AM
Oct 25	APRP	APRP Tranche V meeting at 12 noon
	EEAA	WWTR meeting with EEAA at 1 PM
Oct 30- Nov 2	Luxor/Qena	Water management at district level training program
Nov 1	MWRI 9 th floor conference room	IMT socio-economic survey meeting with Dr. Mohieddin at 3 PM
Nov 1-2	Luxor/Qena	Mismatch water management at district level field trip to Luxor and Qena
Nov 2-3	Stella Di Mare Hotel, Ain	WWTR task group coordination workshop

DATE	LOCATION	PURPOSE
	Sokhna	
Nov 6	Conrad Hotel, Cairo	Law 12 stakeholder workshop
Nov 7	MWRI	MISD meetings, 2 pilot irrigation district
Nov 16-18	Palsestine Hotel, Alex	Tranche IV review workshop
Nov 19	MWRI 9 th floor conference room	German donor group briefing at 12 noon
Nov 21	MWRI 9 th floor conference room	MISD meetings, 3 pilot irrigation districts at 11 AM
Nov 22	MWRI	IMT working group meeting at 11 AM
Dec 5	MWRI	Progress meeting of IAS officers assigned to form BCWUAs at the 4 IMT pilot sites
Dec 14	MWRI	Meeting with Tamar Moustafa of Texas A&M University institutional aspects of IMT
Dec 17	MWRI	Discussion meeting to review IMT physical assessment findings.

VI. STAFF LEVEL OF EFFORT

The EPIQ resident team has a technical consulting staff of ten people and an administrative support staff of seven people.

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

RESIDENT STAFF:

NAME	POSTION
EXPATRIATE	
Dr. Jeff Fredericks	Chief of Party (Departed 22 November)
Mr. Andrew Tczap	Chief of Party (starting 17 December)
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	
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

NAME	POSITION
EXPATRIATE	
Andrew Tczap	Senior Water Policy Assessment Specialist
Jeremy Salucka	Technical Editor
Mark Goldrup	Technical Editor
LOCAL EGYPTIAN	
Abdel Rahim El-Mahdy	Interpreter/Translator
Hussein Elwan	Irrigation Management Specialist
Sanaa Abdel Rashid	Water Data Analysis Specialist
Yehia Abdel Aziz	Senior Water Quality Specialist
Hussein El Atfy	Senior Water Policy Specialist
Dr. Hesham Kandil	Senior Water Quality Specialist
Siham Hendy	Senior Public Health Specialist
Dr. Mamdouh Riad	Senior Forestry Specialist
Magda Gaballa	Senior Wastewater Treatment Specialist
Mohsen Mamdouh	Senior Wastewater Treatment Specialist
Amr Hafez	Telemetry Specialist
Alaa Hassan	Computer Software Specialist
Soliman Abu Zeid	Senior Water Management Specialist
Abdel Rahman Shalaby	Senior Institutional Policy Specialist
Essam Barakat	Senior Participatory Irrigation Management Specialist
Ahmed Maher Ghydan	Senior Irrigation Specialist
Dr. Mohamed Badran	Legal Specialist
Dr. Mohamed Rami Mahmoud	Water Policy Information Specialist

VII. STATUS OF FINANCES AND EXPENDITURES

Financial summary for 4th Quarter 2000 (October-December 2000)

	Itemized Budget	Prior Claimed	Current Claim	Claims to Date	Remaining Balance	Budget Claimed
Direct Labor	\$6,795,261	\$4,331,338	\$252,670	\$4,584,008	\$2,211,253	67%
Travel and Transportation	\$385,000	\$223,928	\$10,357	\$234,285	\$150,715	61%
Per Diem	\$235,281	\$185,148	\$8,430	\$193,578	\$41,703	82%
Allowances	\$1,233,887	\$837,498	\$32,652	\$870,150	\$363,737	70%
Other Direct Costs	\$1,668,793	\$1,139,358	\$26,545	\$1,165,903	\$502,890	70%
Total	\$10,318,222	\$6,717,270	\$330,654	\$7,047,924	\$3,270,298	68%

Source: IRG Invoice #41, #42, and #43

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 Management	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
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 Phase I: 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

No.	NAME	DATE
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