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THE WORLD BANK

Washington, D.C.

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The World Bank

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MASTER
BUDGET

INT/87/024

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R2004-044 Other #: 25 Box # 204403B
Inter-Regional - INT/87/024 - Master Budget - Efficiency of Investments in
Water Supply - Documents and Correspondence

OFFICE MEMORANDUM

DATE December 17, 1987

TO Mr. Raj Krishna, VPL

FROM P. Ljung, Chief, INUWD *Rj*

EXTENSION 31015

SUBJECT UNDP Project INT/87/024 - Efficiency of Investments in Water Supply

Attached for your legal records are the original and a copy of the Project Document for the above project.

Please substitute this for the previous document mailed to you with my memo of September 24, 1987. Although there is no significant change in the document, the amounts allocated for 1987 and 1988 have been rearranged to conform with the expenditures foreseen for these years.

Attachments

cc with attachment: Messrs. Lau (LOA), Abdi (PRE), Gross (INUIS),
Briscoe (INUWD)
Mmes Fidel (COD), del Castillo (INUIS), Saunders (INUWD)

/is

1987 DEC 22 AM 9:08
DUPLICATE UNIT

UNITED NATIONS
DEVELOPMENT PROGRAMME



PROGRAMME DES NATIONS UNIES
POUR LE DEVELOPPEMENT

ONE UNITED NATIONS PLAZA
NEW YORK, N.Y. 10017

CABLE ADDRESS: UNDEVPRO • NEW YORK

TELEPHONE: 906-5000

Attention: Ms. Carmen Del Castillo

REFERENCE:

INT/87/024

8 December 1987

Dear Mr. Ljung,

INT/87/024 - Efficiency of Investments in Water Supply

...

We are pleased to forward herewith the project document for the above-mentioned project duly signed on behalf of UNDP.

Please substitute this for the previous document returned to your office in October. Although there is no significant change in the document the amounts allocated for 1987 and 1988 have been rearranged to conform with the expenditures foreseen for these years.

Yours sincerely,

A handwritten signature in cursive script, appearing to read "Tim Rothermel".

Timothy Rothermel
Director

Division for Global and Interregional Programmes

Mr. Per Ljung
Chief
Water and Urban Development Division
Infrastructure and Urban Development Dept.
World Bank
1818 H Street, N.W.
Washington D.C. 20433

Country:	
Date Received:	12/16/87
Replied by:	
Date Replied:	

105

UNITED NATIONS DEVELOPMENT PROGRAMME

INTERREGIONAL PROJECT

PROJECT DOCUMENT

Title: Efficiency of Investments in Water Supply

Number: INT/87/024/A/01/42

Duration: 18 months

Sector: Health (10)

Sub-sector: Environmental Health (1030)

Primary Function: Applied Research

Secondary Function: Training

Executing Agency: International Bank for Reconstruction and Development (IBRD)

Estimated Starting date: July 1987

UNDP inputs: US\$300,000

L. Pauliquen
Signed on behalf of the World Bank

9/24/87
Date

T. G. S. Rotaru
Approved on behalf of the UNDP

28 July 1987
Date

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- I. Preparation of a Framework for Effective Participation
of National and International Staff in the Project
- J. Development Support Communication
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- L. Prior Obligations and Prerequisites

III. SCHEDULE FOR MONITORING, EVALUATION AND REPORTS

- A. Monitoring
- B. Evaluation
- C. Progress and Final Reports

IV. BUDGET

Annex I: Budget showing contributions of World Bank, UNDP and others

PART I: LEGAL CONTEXT

1. This Project Document will become effective when signed by the United Nations Development Programme (UNDP) and the International Bank for Reconstruction and Development (World Bank, as Executing Agency).
2. Each country which expresses its interest in participating to the extent that the project is concerned with development in its territory or activities related to the project are to be carried out in its territory, shall indicate its interest in, and adherence to, the Project Document by a letter addressed to the UNDP Resident Representative responsible for UNDP activities in the country, with copy to the Executing Agencies, whereupon such country shall be deemed to be a party to this Project Document as fully as if it had signed the Project Document directly as of the latest of the dates appearing on the cover page hereto.
3. The relationship of such countries with UNDP and the Executing Agencies will be governed by the Project Document and the documentation noted below:
 - (a) For those countries that have entered into agreements with United Nations Expanded Program of Technical Assistance or United Nations Special Fund of the UNDP, this Project Document shall be the instrument (therein referred to as the Plan of Operations) envisaged in Article 1, Paragraph 2, of such agreements. The legal framework for this project shall be as set forth in Part V of this Project Document.
 - (b) For those countries that have entered into the Standard Basic Assistance Agreement with UNDP, this Project Document shall be the instrument envisaged in Article 1, paragraph 1, of such agreements and such agreement shall be the legal framework for this project. For the purposes of the Standard Basic Agreement entered into as aforesaid, reference to the respective Government Implementing Agency shall be a reference to the Government Cooperating Agency described in such agreement.

PART II: THE PROJECT

A: Development Objective

4. The development objective of the Project is to improve the health and welfare of people living in rural areas of developing countries by improving the efficiency of investment in the rural water supply sector. To achieve this end it is necessary to develop policies and procedures which result in sustainable and replicable investment projects. One (although by no means the only) important component of such projects is that the services provided are those which people want and are willing to pay for. Accordingly, this project will focus on assessing what services local people want and will pay for, on methods for determining this rapidly and effectively for communities in any environmental, cultural and socioeconomic setting, and on the implications of such information for technical choices (such as level of service and scale of project) & financial choices (such as tariffs and cost-recovery targets).

B: Immediate Objectives:

5. The immediate objectives, to be achieved by means of applied field investigations in five countries, are to:
- ... Assess what improved water supply services (such as handpumps, standpipes or yardtaps) people want and are willing to pay for in rural areas of the study countries (Brazil, Nigeria, Pakistan, Zimbabwe, Tanzania and India (Kerala State));
 - ... Use this information to provide guidance to policy makers on technical choices (such as level of service and scale of project) and financial choices (such as tariffs, cross-subsidies and cost recovery targets) in the study countries;
 - ... Develop capacity within the five countries for conduct of such applied research;
 - ... Draw conclusions on the implications of the empirical findings for rural water supply policy in other countries;
 - ... Develop practical planning methodologies that can assist agencies and communities in rapidly making appropriate technical and financial choices in rural water supply projects;
 - ... Disseminate the empirical, methodologic and policy findings of the Project through the UNDP/World Bank International Training Network (INT/86/027/A/01/42) and other mechanisms.

C: Special Considerations

6. The Project will contribute to global efforts to improve the water supply conditions of rural people in developing countries, in accordance with the aims of the United Nations International Drinking Water Supply and Sanitation Decade.
7. The Project is designed to give special consideration to relationships between recipient countries with respect to rural water supply policies and procedures, thereby contributing to global efforts to improve technical cooperation among developing countries. Special consideration will also be given to inclusion of women collaborators both in the central and country study teams. As a complementary and parallel activity, the Project will involve key international (including, in addition to the World Bank, UNICEF and WHO) and bilateral (including NORAD, Danida, and USAID) agencies involved in the sector.

D. Background and Justification

8. To meet the target of the International Drinking Water Supply and Sanitation Decade (of universal coverage for all) by the year 2000 will require substantial increases in the pace of construction of new facilities, and improvements in the operation and maintenance of existing facilities. Through work by UNDP, the World Bank and others, much has been learned about the technical options (which include handpumps, and piped supplies providing water either through public standpipes, yard taps or house connections). Much, too, has been learned about the appropriate roles of external agencies, governments, the community and the private sector. To improve sector performance, however, there remain several critical areas of uncertainty. These include:
the relationship between water supply, sanitation and health;

ways in which the institutions necessary for operating, maintaining and managing rural water supply systems can be structured and supported; and how to determine what improvements people want and are willing to pay for. It is this latter lacuna which is the focus of the proposed research project.

9. Recent reviews by the World Bank and others have shown that assumptions of the response (in terms of number of connections and quantities of water used) of consumers to improved water services are often erroneous. To be successful in developing replicable and sustainable projects, it is essential to have sound information on what local people want and will pay for, and methods for determining this rapidly and effectively for particular communities in any environmental, socioeconomic and cultural setting. Such information is vital to assure that all concerned -- communities, government and external agencies -- make correct choices on technical issues (such as level of service) and financial issues (such as cost recovery targets, tariffs and subsidies).

10. This area has received relatively little attention in the past compared to what has been done on the technology options and roles of government, community etc. Much more needs to be done on it if the objective of bringing safe water to all is to be met. The proposed study will help close this major gap in the information and methods needed. It will contribute to improving the effectiveness of investment in the sector and to developing expertise within the developing countries for applying the results.

11. The Project will directly complement ongoing multi-donor UNDP World Bank interregional projects concerned with low-cost water supply and sanitation. These projects are:

- ... Field Testing and Development of Rural Water Supply Handpumps -- INT/81/026
- ... Development and Implementation of Low-Cost Sanitation Investment Projects -- INT/81/047
- ... Information Training Network for Water and Waste Management -- INT/86/027/A/01/42

E: Outputs

12. The Project is not an exercise in research for research's sake: it aims to produce outputs which will help achieve real changes in how rural water supplies are planned, financed, constructed and operated and maintained. Specifically, the project will produce:

- (i) empirical information on how villagers respond to improved water supplies, in a variety of cultural, socio-economic and environmental conditions, and
- (ii) practical, low-cost and rapid methods which can be used by project planners to assess what services people want and what they will pay for these.

13. The relationships among objectives, outputs, activities are listed in Table 1. Table 1 also indicates who will have primary responsibility for each product and dates by which products will be produced.

Table 1: Objectives, Outputs and Activities:

OBJECTIVE	OUTPUT	ACTIVITIES	COMPLETION DATES	PRIMARY RESPONSIBILITY
Assess what water supply services rural people want and will pay for in 5 countries	Five national empirical studies of willingness to pay for water (see type of presentation in Box 1)	Design, execution analysis of field studies	Jan - Aug 1988 (depending on country)	Country Study Team
Provide guidance to policy-makers on improved technical & financial choices in 5 countries	Five national studies on the implications of the empirical findings for technical (level of service, scale) & financial (tariffs, cost recovery targets) choices	Analysis of country data; discussion with decision-makers; preparation of report scientific papers	Feb- Sept 1988	Country Study Team
Assess effects of cultural, economic and environmental conditions on what people want and will pay for	Multi-country empirical study of willingness to pay for water	Comparative analysis of multi-country data	Sept 1988	World Bank team
Comparison of policy implications in different countries	Multi-country policy study on technical (level of service, scale, etc.) and financial (tariffs, cost-recovery targets, etc.) choices	Analysis of multi-country data; discussions with policy-makers; preparation of report, book and scientific papers	Oct 1988 Oct 1988 Dec 1988	World Bank team
Improve project preparation procedures	Rapid, valid methods for assessing demand as part of project preparation activities	Comparison of "correct" analytic procedures with simplified, rapid procedures	Nov 1988	World Bank team
Disseminate findings to professionals	Training materials	Development of module for use by UNDP/World Bank Network and others	Nov 1988	World Bank team
Disseminate findings to policy-makers	Workshops	Presentation and discussion of methods, results and policy implications	Dec 1988	World Bank team

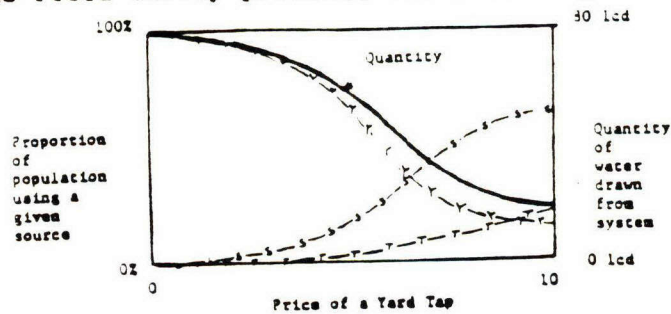
BOX 1:

Case I -- A Gravity Piped Supply System

Present Situation: A gravity system presently provides water free to standpipes an average distance of 400 meters from each house

Policy Question: The operating authority is considering allowing yard taps, and needs to know, for a given monthly fee, how many will choose to use yard taps, and what the effects on the quantities of water drawn from the system will be.

Results: The field survey produces the following results:



Legend: Source chosen: Y -- yard taps, S -- standpipe; T -- traditional.

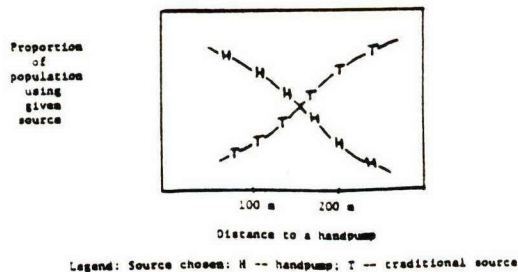
Use of the study: The operating authority can assess the effects of different tariff structures on issues such as the revenues which will be generated and the capacity of the system to support the new demands.

Case II -- A Hand Pump Supply System

Present Situation: Handpumps have been installed in a village. The average distance to a handpump is 300 meters. Only 20% of the villages use the handpumps.

Policy Question: The rural water supply authority is considering increasing the number of handpumps, in the hope that reducing the distance to the handpump will lead to families abandoning the traditional sources in favor of the handpump. The authority wishes to know how low the average distance has to be before 80% or more of the villages will use a handpump.

Results: The field survey produces the following results:



Legend: Source chosen: H -- handpump; T -- traditional source

Use of the study: The water supply authority can determine how many handpumps have to be installed in order to reach specific coverage goals.

F: Activities

14. In each study country six sites will be chosen. Sites will include both villages in which improved water supplies are in operation and other villages in which improved supplies are yet to be installed. From the former villages inferences will be drawn on the basis of observed practices. From the latter villages inferences will be based on whether villagers say they would choose to connect if, for instance, a yard tap were available at a particular price. In both cases will assess the effect of family socio-economic characteristics, and the characteristics (including type of service, distance from the home, monetary cost, reliability and perceived quality) of both the traditional and improved sources on:

- ... how many will choose to use the new service; and
- ... how much water will they choose to use from the new service.

15. Sites will be chosen so that predicted behavior can be compared with actual behavior (when improved sources are chosen). On the basis of this comparison, the project will assess the validity of alternative rapid, low-cost approaches to assessing what services people want and what they will pay for these.

15. The six countries chosen for the study -- Brazil, Nigeria, Pakistan, Tanzania, Zimbabwe and India (Kerala State) -- have been chosen taking into account the following factors:

- interest of the national authorities in the study;
- interest of lending or grant agencies;
- availability of high-quality in-country collaborators;
- regional balance
- variation in political systems.

16. Within each collaborating country a primary collaborating institution is being identified and a team formed for execution of the country study. To date institutional arrangements have been discussed in Brazil, Nigeria and Pakistan, where the collaborating institutions are, respectively:

Brazil -- IPEA, the Institute for Economic and Social Planning of the Secretariat for Planning of the Government of Brazil;

Nigeria -- the Department of Economics of the University of Ibadan;

Pakistan -- the Applied Economics Research Centre of the University of Karachi.

17. An essential preliminary activity is a meeting, attended by the Directors of the Country Study Teams and by officials from the World Bank and collaborating multilateral and bilateral agencies, at which agreement is reached on the objectives, methods, procedures and workplan for the project. In April 1987 the World Bank hosted such a meeting, which was attended by collaborating scientists from Brazil, Pakistan, Nigeria and India *, and by officials from multilateral and bilateral agencies.

* A study of the Indian state of Kerala will be executed by DANIDA. Although this particular study will not be funded by UNDP, it will be conducted in close collaboration with the proposed UNDP/World Bank study.

18. The Country Study Teams in each participating country will have primary responsibility for the following activities:
- ... identification of collaborating institution;
 - ... agreement on terms of reference for country study;
 - ... conclusion of country study contracts;
 - ... selection of areas of country in which data are to be collected;
 - ... selection of specific potential sites within the study areas;
 - ... anthropological/sociological studies in potential sites;
 - ... development and pre-testing of questionnaires;
 - ... collection of data;
 - ... cleaning of data;
 - ... statistical analysis of water use choices;
 - ... discussion of results and policy implications with key national policy makers;
 - ... writing of Country Report to provide national planners with detailed results of the studies, and the consequences for technical and financial policies in the country.
19. The World Bank team will have the following responsibilities:
- ... collaboration with Country Study Teams in all aspects of design, execution, analysis and dissemination of the Country Studies;
 - ... analysis, in conjunction with the Country Study Directors, of the multi-country data set;
 - ... an assessment of the global implications of the field studies for technical and financial choices in the sector;
 - ... guidelines for conducting field studies of water choices rapidly and at modest cost, and for interpreting the results of such studies;
 - ... development of materials for dissemination of the findings and conclusions of the study appropriate for the International Training Network and other vehicles;
 - ... a Multi-Country Report summarizing the empirical and methodologic findings and the implications for the water supply sector policies of multilateral, bilateral and government agencies.
20. It is expected that the low-cost, rapid assessment technique to be developed by the project will be field tested in a subsequent round of country studies starting in late 1988. Ideally such studies should be part of routine project preparation activities in these countries.

G: Inputs

(a) By Participating Governments:

21. All field operations will be conducted by the national collaborating institutions in consultation and collaboration with relevant government agencies. In Brazil the national government will meet the in-country costs of the Country Study Team. In other countries incremental inputs from participating governments will not be required.

I: A Framework for Effective Participation
of National and International Staff in the Project

27. This is a collaborative project which will effectively integrate the efforts of scientists and policy makers both from international agencies and within the study countries.

28. In Brazil, Nigeria, Pakistan and India staff from the World Bank Regional Operating Divisions have been, and will continue to be, involved in the formulation of the study design. In Nigeria and Pakistan close relationships will be developed with UNICEF field staff who are active in the water sector. In Brazil the Pan American Health Organization has been, and will continue to be, consulted. In Tanzania and Zimbabwe NORAD will be closely involved in the Country Studies, and in India DANIDA will execute the Kerala study.

29. In each of the Study Countries national scientists and policy makers will be involved in the studies. Country Study Teams based in pre-eminent research institutions of the countries have been formed in Brazil, Nigeria and Pakistan. The integration of national planners has been achieved in the two countries where site visits have been carried out. In Brazil the Secretariat for Planning, the Ministry for Urban Development and Environment, the Ministry of Health and several State Water Companies are directly involved in execution of the Country Study, while in Pakistan the Federal Ministry of Planning and the State Departments of Housing, Environment and Local Government and Rural Development will be consulted throughout the project.

J: Development Support Communication

30. Bank staff and the Country Study Directors will be responsible for continuing to develop the sound relationships established with appropriate government agencies. Key government officials will continue to be involved in defining the scope and focus of the Country Studies and will continue to demand answers to the national rural water supply policy concerns which can be addressed by the study. The World Bank will continue to have regular discussions with other international agencies (including UNICEF and WHO) and bilateral agencies.

K: Institutional Framework

31. The project will be executed under the supervision of and in accordance with the regular administrative procedures of the World Bank. An advisory panel will periodically review progress on the project, and to provide advise on key issues (including study design, analysis, reports and dissemination).

32. The project will work closely with the UNDP-funded, World Bank-executed Handpumps and Training Network Projects, and the Sector Development Teams. Close coordination will be maintained with UNICEF and WHO both at the headquarters level and, where appropriate, in the field.

The project also involves close collaboration with the Operating Divisions of the World Bank, thus ensuring that the products of the research are relevant to, and fed directly back into, operational activities.

33. The project will reach agreements, by exchange of letters, with host governments with respect to the project activities to be undertaken within their jurisdictions. The agreements will include, inter alia, the contributions (if any) the government expects to make to the project, the scope and site of any field trials, and the designation of local counterpart agencies. Government officials will be kept fully informed on the project's activities.

L: Prior Obligations and Prerequisites

34. None

PART III: SCHEDULE FOR MONITORING, EVALUATION AND REPORTS

A: Monitoring

35. In accordance with the policies established by UNDP for monitoring project implementation, periodic reviews will take place at regular intervals throughout the project. The findings and recommendations of reviews will be incorporated, as necessary, into future revisions of the project document and the work plan.

B: Evaluation

36. The project will be subject to evaluation in accordance with the policies and procedures established for this purpose by UNDP. The organization, terms of reference and timing of evaluation will be decided by consultation between UNDP and the World Bank.

C: Progress and Final Reports

37. The World Bank will provide the following reports:
-- Annual Progress Reports
-- Country Study Reports
-- A final Project Report

PART IV: BUDGET

38. The Project Budget, showing both the UNDP contributions and the contributions of other contributing agencies, are outlined in Annex I.

39. The project has been designed to keep the use of funds for administrative support functions to the minimum possible, consistent with achievement of the project objectives. The World Bank will be devoting considerable resources of its own to support of this project.

Annex I:

Budget showing Contributions of
World Bank, UNDP and others (Calendar Years 1987 and 1988).

	SOURCE OF FUNDING:			
	World Bank	UNDP	Other donors*	Total
10. Personnel:				
11.01 Water specialist	90	0	0	90
11.02 Economist	100	0	0	100
11.04 Consultants	0	70	70	140
13. Administrative support	20	0	0	20
15. Expert's travel	0	50	20	70
19. Component Total	(210)	(120)	(90)	(420)
20. Subcontract Component:				
21.01 Country 1: Brazil	0	20	0	20#
21.02 Country 2: Tanzania	0	0	70	70
21.03 Country 3: Nigeria	0	70	0	70
21.04 Country 4: Zimbabwe	0	0	70	70
21.05 Country 5: Pakistan	0	70	0	70
21.06 Country 6: India (Kerala State)	0	0	0	0**
29. Component Total:	(0)	(160)	(140)	(300)
40. Equipment				
49. Component Total	(0)	(10)	(30)	(40)
50. Miscellaneous				
59. Component Total	(0)	(10)	(30)	(40)
99. Project Total	210	300	290*	800
Calendar Year 1987	90	200	210	500
Calendar Year 1988	120	100	80	300

The Government of Brazil will finance the in-country costs of the Brazil Country Study.

** The Kerala study will be funded and executed by DANIDA, with the proposed UNDP/World Bank project providing technical assistance and support.

* Including \$190,000 from Norad and \$100,000 from the Swiss Development Corporation

Annex I, a:

Indicative Budget for Country Study:

Personnel

Country Director: 30 days @ \$100	8,000
Country Advisor: 20 days @ \$100	2,000
Anthropologist: 60 days @ \$100	6,000
Research assistants: 2x120 days @\$40	9,600
Secretary: 120 days @\$30	3,600
Field Supervisor: 100 days @\$30	3,000
Field staff: 10 x 60 days @ \$20	12,000
Travel and per diem	10,000
Materials and supplies	5,000
Computing services	5,000
Miscellaneous	3,400
<hr/>	
TOTAL	70,000
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BUDGET REVISION

Country: Interregional
Project No. INT/87/024/A/01/42
Title: Efficiency of Investments in Water Supply

	Total	1987	1988
<hr/>			
10.00 PERSONNEL			
11.04 Consultants	220,000	60,000	160,000
15.00 Travel	53,000	28,000	25,000
19.00 Component Total	273,000	88,000	185,000
40. EQUIPMENT			
42. Non-Expendable Equipment	10,000	5,000	5,000
49. Component Total	10,000	5,000	5,000
59. MISCELLANEOUS			
51. Operation & Maintenance of Equipment	10,000	5,000	5,000
53. Sundry	7,000	2,000	5,000
59. Component Total	17,000	7,000	10,000
<hr/>			
99. PROJECT TOTAL	300,000	100,000	200,000
<hr/>			

THE WORLD BANK / INTERNATIONAL FINANCE CORPORATION
OFFICE MEMORANDUM

- ① Master Budget
- ② Source of Funding
- ③ Donors
- ④ Return to CDC

DATE September 24, 1987

TO Mr. Raj Krishna, VPL

FROM P. Ljung, Chief, INUWD *[Signature]*

EXTENSION 31015

SUBJECT UNDP Project INT/87/024 - Efficiency of Investments in Water Supply

Attached for your legal records are the original and a copy of the Project Document for UNDP Project INT/87/024 - Efficiency of Investments in Water Supply. The document was signed on behalf of the Bank by Mr. Louis Pouliquen, Director, INU; and on behalf of the UNDP by Mr. Timothy S. Rothermel, Director, Division for Global and Interregional Projects.

Attachments

cc with attachments: Messrs. Lau (LOA), Abdi (PRE), Gross (INUIS)
Mmes Fidel (COD), del Castillo (INUIS), Saunders (INUWD)

Legal records

See memo 12/17

/is

00 17 00 000 2001

→ Return to CDC
P.1

UNITED NATIONS DEVELOPMENT PROGRAMME

INTERREGIONAL PROJECT

PROJECT DOCUMENT

Title: Efficiency of Investments in Water Supply

Number: INT/87/024/A/01/42

Duration: 18 months

Sector: Health (10)

Sub-sector: Environmental Health (1030)

Primary Function: Applied Research

Secondary Function: Training

Executing Agency: International Bank for Reconstruction
and Development (IBRD)

Estimated Starting date: July 1987

UNDP inputs: US\$300,000

Cost-Sharing (Swiss): US\$100,000

L. Paulsson
Signed on behalf of the World Bank

3/24/87
Date

Timothy S. Rokey
Approved on behalf of the UNDP

28 July 1987
Date

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IV. BUDGET

Annex I: Budget showing contributions of World Bank, UNDP and others

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PART II: THE PROJECT

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B: Immediate Objectives:

5. The immediate objectives, to be achieved by means of applied field investigations in five countries, are to:
- ... Assess what improved water supply services (such as handpumps, standpipes or yardtaps) people want and are willing to pay for in rural areas of the study countries (Brazil, Nigeria, Pakistan, Zimbabwe, Tanzania and India (Kerala State));
 - ... Use this information to provide guidance to policy makers on technical choices (such as level of service and scale of project) and financial choices (such as tariffs, cross-subsidies and cost recovery targets) in the study countries;
 - ... Develop capacity within the five countries for conduct of such applied research;
 - ... Draw conclusions on the implications of the empirical findings for rural water supply policy in other countries;
 - ... Develop practical planning methodologies that can assist agencies and communities in rapidly making appropriate technical and financial choices in rural water supply projects;
 - ... Disseminate the empirical, methodologic and policy findings of the Project through the UNDP/World Bank International Training Network (INT/86/027/A/01/42) and other mechanisms.

C: Special Considerations

6. The Project will contribute to global efforts to improve the water supply conditions of rural people in developing countries, in accordance with the aims of the United Nations International Drinking Water Supply and Sanitation Decade.
7. The Project is designed to give special consideration to relationships between recipient countries with respect to rural water supply policies and procedures, thereby contributing to global efforts to improve technical cooperation among developing countries. Special consideration will also be given to inclusion of women collaborators both in the central and country study teams. As a complementary and parallel activity, the Project will involve key international (including, in addition to the World Bank, UNICEF and WHO) and bilateral (including NORAD, Danida, and USAID) agencies involved in the sector.

D. Background and Justification

8. To meet the target of the International Drinking Water Supply and Sanitation Decade (of universal coverage for all) by the year 2000 will require substantial increases in the pace of construction of new facilities, and improvements in the operation and maintenance of existing facilities. Through work by UNDP, the World Bank and others, much has been learned about the technical options (which include handpumps, and piped supplies providing water either through public standpipes, yard taps or house connections). Much, too, has been learned about the appropriate roles of external agencies, governments, the community and the private sector. To improve sector performance, however, there remain several critical areas of uncertainty. These include:
the relationship between water supply, sanitation and health;

ways in which the institutions necessary for operating, maintaining and managing rural water supply systems can be structured and supported; and how to determine what improvements people want and are willing to pay for. It is this latter lacuna which is the focus of the proposed research project.

9. Recent reviews by the World Bank and others have shown that assumptions of the response (in terms of number of connections and quantities of water used) of consumers to improved water services are often erroneous. To be successful in developing replicable and sustainable projects, it is essential to have sound information on what local people want and will pay for, and methods for determining this rapidly and effectively for particular communities in any environmental, socioeconomic and cultural setting. Such information is vital to assure that all concerned -- communities, government and external agencies -- make correct choices on technical issues (such as level of service) and financial issues (such as cost recovery targets, tariffs and subsidies).

10. This area has received relatively little attention in the past compared to what has been done on the technology options and roles of government, community etc. Much more needs to be done on it if the objective of bringing safe water to all is to be met. The proposed study will help close this major gap in the information and methods needed. It will contribute to improving the effectiveness of investment in the sector and to developing expertise within the developing countries for applying the results.

11. The Project will directly complement ongoing multi-donor UNDP World Bank interregional projects concerned with low-cost water supply and sanitation. These projects are:

- ... Field Testing and Development of Rural Water Supply Handpumps -- INT/81/026
- ... Development and Implementation of Low-Cost Sanitation Investment Projects -- INT/81/047
- ... Information Training Network for Water and Waste Management -- INT/86/027/A/01/42

E: Outputs

12. The Project is not an exercise in research for research's sake: it aims to produce outputs which will help achieve real changes in how rural water supplies are planned, financed, constructed and operated and maintained. Specifically, the project will produce:

- (i) empirical information on how villagers respond to improved water supplies, in a variety of cultural, socio-economic and environmental conditions, and
- (ii) practical, low-cost and rapid methods which can be used by project planners to assess what services people want and what they will pay for these.

13. The relationships among objectives, outputs, activities are listed in Table 1. Table 1 also indicates who will have primary responsibility for each product and dates by which products will be produced.

Table 1: Objectives, Outputs and Activities:

OBJECTIVE	OUTPUT	ACTIVITIES	COMPLETION DATES	PRIMARY RESPONSIBILITY
Assess what water supply services rural people want and will pay for in 5 countries	Five national empirical studies of willingness to pay for water (see type of presentation in Box 1)	Design, execution analysis of field studies	Jan - Aug 1988 (depending on country)	Country Study Teams
Provide guidance to policy-makers on improved technical & financial choices in 5 countries	Five national studies on the implications of the empirical findings for technical (level of service, scale) & financial (tariffs, cost recovery targets) choices	Analysis of country data; discussion with decision-makers; preparation of report scientific papers	Feb- Sept 1988	Country Study Teams
Assess effects of cultural, economic and environmental conditions on what people want and will pay for	Multi-country empirical study of willingness to pay for water	Comparative analysis of multi-country data	Sept 1988	World Bank team
Comparison of policy implications in different countries	Multi-country policy study on technical (level of service, scale, etc.) and financial (tariffs, cost-recovery targets, etc.) choices	Analysis of multi-country data; discussions with policy-makers; preparation of report, book and scientific papers	Oct 1988 Oct 1988 Dec 1988	World Bank team
Improve project preparation procedures	Rapid, valid methods for assessing demand as part of project preparation activities	Comparison of "correct" analytic procedures with simplified, rapid procedures	Nov 1988	World Bank team
Disseminate findings to professionals	Training materials	Development of module for use by UNDP/World Bank Network and others	Nov 1988	World Bank team
Disseminate findings to policy-makers	Workshops	Presentation and discussion of methods, results and policy implications	Dec 1988	World Bank team

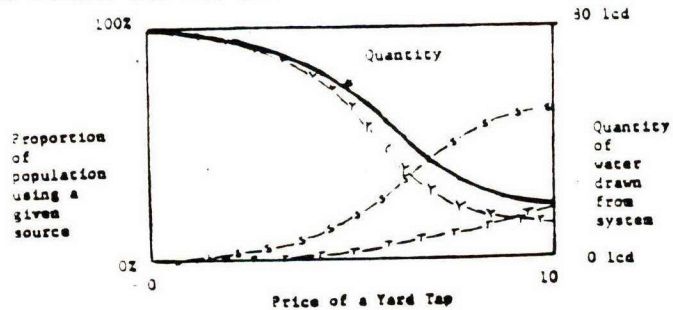
BOX 1:

Case I -- A Gravity Piped Supply System

Present Situation: A gravity system presently provides water free to standpipes an average distance of 400 meters from each house

Policy Question: The operating authority is considering allowing yard taps, and needs to know, for a given monthly fee, how many will choose to use yard taps, and what the effects on the quantities of water drawn from the system will be.

Results: The field survey produces the following results:



Legend: Source chosen: Y -- yard taps; S -- standpipes; T -- traditional.

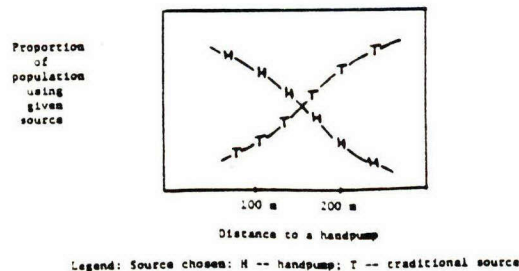
Use of the study: The operating authority can assess the effects of different tariff structures on issues such as the revenues which will be generated and the capacity of the system to support the new demands.

Case II -- A Hand Pump Supply System

Present Situation: Handpumps have been installed in a village. The average distance to a handpump is 300 meters. Only 20% of the villages use the handpumps.

Policy Question: The rural water supply authority is considering increasing the number of handpumps, in the hope that reducing the distance to the handpump will lead to families abandoning the traditional sources in favor of the handpump. The authority wishes to know how low the average distance has to be before 80% or more of the villages will use a handpump.

Results: The field survey produces the following results:



Legend: Source chosen: H -- handpump; T -- traditional source

Use of the study: The water supply authority can determine how many handpumps have to be installed in order to reach specific coverage goals.

F: Activities

14. In each study country six sites will be chosen. Sites will include both villages in which improved water supplies are in operation and other villages in which improved supplies are yet to be installed. From the former villages inferences will be drawn on the basis of observed practices. From the latter villages inferences will be based on whether villagers say they would choose to connect if, for instance, a yard tap were available at a particular price. In both cases will assess the effect of family socio-economic characteristics, and the characteristics (including type of service, distance from the home, monetary cost, reliability and perceived quality) of both the traditional and improved sources on:

- ... how many will choose to use the new service; and
- ... how much water will they choose to use from the new service.

15. Sites will be chosen so that predicted behavior can be compared with actual behavior (when improved sources are chosen). On the basis of this comparison, the project will assess the validity of alternative rapid, low-cost approaches to assessing what services people want and what they will pay for these.

15. The six countries chosen for the study -- Brazil, Nigeria, Pakistan, Tanzania, Zimbabwe and India (Kerala State) -- have been chosen taking into account the following factors:

- interest of the national authorities in the study;
- interest of lending or grant agencies;
- availability of high-quality in-country collaborators;
- regional balance
- variation in political systems.

16. Within each collaborating country a primary collaborating institution is being identified and a team formed for execution of the country study. To date institutional arrangements have been discussed in Brazil, Nigeria and Pakistan, where the collaborating institutions are, respectively:

- Brazil -- IPEA, the Institute for Economic and Social Planning of the Secretariat for Planning of the Government of Brazil;
- Nigeria -- the Department of Economics of the University of Ibadan;
- Pakistan -- the Applied Economics Research Centre of the University of Karachi.

17. An essential preliminary activity is a meeting, attended by the Directors of the Country Study Teams and by officials from the World Bank and collaborating multilateral and bilateral agencies, at which agreement is reached on the objectives, methods, procedures and workplan for the project. In April 1987 the World Bank hosted such a meeting, which was attended by collaborating scientists from Brazil, Pakistan, Nigeria and India *, and by officials from multilateral and bilateral agencies.

* A study of the Indian state of Kerala will be executed by DANIDA. Although this particular study will not be funded by UNDP, it will be conducted in close collaboration with the proposed UNDP/World Bank study.

18. The Country Study Teams in each participating country will have primary responsibility for the following activities:
- ... identification of collaborating institution;
 - ... agreement on terms of reference for country study;
 - ... conclusion of country study contracts;
 - ... selection of areas of country in which data are to be collected;
 - ... selection of specific potential sites within the study areas;
 - ... anthropological/sociological studies in potential sites;
 - ... development and pre-testing of questionnaires;
 - ... collection of data;
 - ... cleaning of data;
 - ... statistical analysis of water use choices;
 - ... discussion of results and policy implications with key national policy makers;
 - ... writing of Country Report to provide national planners with detailed results of the studies, and the consequences for technical and financial policies in the country.
19. The World Bank team will have the following responsibilities:
- ... collaboration with Country Study Teams in all aspects of design, execution, analysis and dissemination of the Country Studies;
 - ... analysis, in conjunction with the Country Study Directors, of the multi-country data set;
 - ... an assessment of the global implications of the field studies for technical and financial choices in the sector;
 - ... guidelines for conducting field studies of water choices rapidly and at modest cost, and for interpreting the results of such studies;
 - ... development of materials for dissemination of the findings and conclusions of the study appropriate for the International Training Network and other vehicles;
 - ... a Multi-Country Report summarizing the empirical and methodologic findings and the implications for the water supply sector policies of multilateral, bilateral and government agencies.
20. It is expected that the low-cost, rapid assessment technique to be developed by the project will be field tested in a subsequent round of country studies starting in late 1988. Ideally such studies should be part of routine project preparation activities in these countries.

G: Inputs

(a) By Participating Governments:

21. All field operations will be conducted by the national collaborating institutions in consultation and collaboration with relevant government agencies. In Brazil the national government will meet the in-country costs of the Country Study Team. In other countries incremental inputs from participating governments will not be required.

I: A Framework for Effective Participation
of National and International Staff in the Project

27. This is a collaborative project which will effectively integrate the efforts of scientists and policy makers both from international agencies and within the study countries.

28. In Brazil, Nigeria, Pakistan and India staff from the World Bank Regional Operating Divisions have been, and will continue to be, involved in the formulation of the study design. In Nigeria and Pakistan close relationships will be developed with UNICEF field staff who are active in the water sector. In Brazil the Pan American Health Organization has been, and will continue to be, consulted. In Tanzania and Zimbabwe NORAD will be closely involved in the Country Studies, and in India DANIDA will execute the Kerala study.

29. In each of the Study Countries national scientists and policy makers will be involved in the studies. Country Study Teams based in pre-eminent research institutions of the countries have been formed in Brazil, Nigeria and Pakistan. The integration of national planners has been achieved in the two countries where site visits have been carried out. In Brazil the Secretariat for Planning, the Ministry for Urban Development and Environment, the Ministry of Health and several State Water Companies are directly involved in execution of the Country Study, while in Pakistan the Federal Ministry of Planning and the State Departments of Housing, Environment and Local Government and Rural Development will be consulted throughout the project.

J: Development Support Communication

30. Bank staff and the Country Study Directors will be responsible for continuing to develop the sound relationships established with appropriate government agencies. Key government officials will continue to be involved in defining the scope and focus of the Country Studies and will continue to demand answers to the national rural water supply policy concerns which can be addressed by the study. The World Bank will continue to have regular discussions with other international agencies (including UNICEF and WHO) and bilateral agencies.

K: Institutional Framework

31. The project will be executed under the supervision of and in accordance with the regular administrative procedures of the World Bank. An advisory panel will periodically review progress on the project, and to provide advise on key issues (including study design, analysis, reports and dissemination).

32. The project will work closely with the UNDP-funded, World Bank-executed Handpumps and Training Network Projects, and the Sector Development Teams. Close coordination will be maintained with UNICEF and WHO both at the headquarters level and, where appropriate, in the field.

The project also involves close collaboration with the Operating Divisions of the World Bank, thus ensuring that the products of the research are relevant to, and fed directly back into, operational activities.

33. The project will reach agreements, by exchange of letters, with host governments with respect to the project activities to be undertaken within their jurisdictions. The agreements will include, inter alia, the contributions (if any) the government expects to make to the project, the scope and site of any field trials, and the designation of local counterpart agencies. Government officials will be kept fully informed on the project's activities.

L: Prior Obligations and Prerequisites

34. None

PART III: SCHEDULE FOR MONITORING, EVALUATION AND REPORTS

A: Monitoring

35. In accordance with the policies established by UNDP for monitoring project implementation, periodic reviews will take place at regular intervals throughout the project. The findings and recommendations of reviews will be incorporated, as necessary, into future revisions of the project document and the work plan.

B: Evaluation

36. The project will be subject to evaluation in accordance with the policies and procedures established for this purpose by UNDP. The organization, terms of reference and timing of evaluation will be decided by consultation between UNDP and the World Bank.

C: Progress and Final Reports

37. The World Bank will provide the following reports:
-- Annual Progress Reports
-- Country Study Reports
-- A final Project Report

PART IV: BUDGET

38. The Project Budget, showing both the UNDP contributions and the contributions of other contributing agencies, are outlined in Annex I.

39. The project has been designed to keep the use of funds for administrative support functions to the minimum possible, consistent with achievement of the project objectives. The World Bank will be devoting considerable resources of its own to support of this project.

PROJECT BUDGET COVERING UNDP CONTRIBUTION

Country: Interregional

Project No: INT/87/024/A/01/42

Title: Efficiency of Investments in Water Supply

	TOTAL	1987	1988
	\$	\$	\$
10.00 PERSONNEL			
11.00 Consultants	100,000	60,000	40,000
15.00 Travel	70,000	45,000	25,000
19.00 Component Total	170,000	105,000	65,000
20.00 Subcontracts	230,000	150,000	80,000
99.00 Project Total	400,000	255,000	145,000
103.1 Cost-Sharing (Swiss)		100,000	-
999 Net UNDP contribution	300,000	200,000	100,000

Annex I:

Budget showing Contributions of
World Bank, UNDP and others (Calendar Years 1987 and 1988).

SOURCE OF FUNDING:				
	World Bank	UNDP	Other donors*	Total
10. Personnel:				
11.01 Water specialist	90	0	0	90
11.02 Economist	100	0	0	100
11.04 Consultants	0	70	70	140
13. Administrative support	20	0	0	20
15. Expert's travel	0	50	20	70
19. Component Total	(210)	(120)	(90)	(420)
20. Subcontract Component:				
21.01 Country 1: Brazil	0	20	0	20#
21.02 Country 2: Tanzania	0	0	70	70
21.03 Country 3: Nigeria	0	70	0	70
21.04 Country 4: Zimbabwe	0	0	70	70
21.05 Country 5: Pakistan	0	70	0	70
21.06 Country 6: India (Kerala State)	0	0	0	0**
29. Component Total:	(0)	(160)	(140)	(300)
40. Equipment				
49. Component Total	(0)	(10)	(30)	(40)
50. Miscellaneous				
59. Component Total	(0)	(10)	(30)	(40)
99. Project Total	210	100	290*	600
Calendar Year 1987	90	200	210	500
Calendar Year 1988	120	100	80	300

The Government of Brazil will finance the in-country costs of the Brazil Country Study.

** The Kerala study will be funded and executed by DANIDA, with the proposed UNDP/World Bank project providing technical assistance and support.

* Including \$190,000 from Norad and \$100,000 from the Swiss Development Corporation

Annex I, a:

Indicative Budget for Country Study:

Personnel

Country Director: 30 days @ \$100	3,000
Country Advisor: 20 days @ \$100	2,000
Anthropologist: 60 days @ \$100	6,000
Research assistants: 2x120 days @\$40	9,600
Secretary: 120 days @\$30	3,600
Field Supervisor: 100 days @\$30	3,000
Field staff: 10 x 60 days @ \$20	12,000
Travel and per diem	10,000
Materials and supplies	5,000
Computing services	5,000
Miscellaneous	3,400
TOTAL	70,000

THE WORLD BANK/INTERNATIONAL FINANCE CORPORATION
OFFICE MEMORANDUM

Jo

DATE: August 25, 1989

TO: Mr. Raj Krishna, LEGOP - Room E6105

FROM: P. Ljung, Chief, INURD

EXTENSION: 31015

SUBJECT: UNDP Project INT/87/024 - Efficiency of Investment in Water Supply

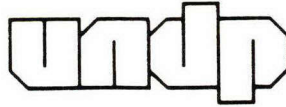
Attached for your records is the original version of budget revision "D" for the above project, duly signed for the Bank by Mr. L. Pouliquen, Director, INU, and by Mr. T. Rothermel for UNDP.

Attachment

cc: Mr. J. Duarte, LOATF
Ms. L. Hamilton, PREVP
Ms. M. Fidel, CODOP
Messrs. B. Gross/J. Olazo, INUWS

/is

RECEIVED
89 AUG 29 10:01
INTERNATIONAL FINANCE CORPORATION



INT/87/024

21 August 1989

Dear Mr. Ljung,

Re: INT/87/024/D/01/42 - Efficiency of Investment in Water Supply.

In response to your letter of 26 June 1989, enclosed please find one fully signed copy of Budget Revision "D".

With kind regards,

Yours sincerely,

A handwritten signature in black ink, appearing to read 'Timothy Rothermel'.

Timothy Rothermel
Director
Division for Global and Interregional
Programmes

Mr. Per Ljung
Chief
Urban Development Division
Policy, Planning and Research Staff
The World Bank
1818 H. Street, N.W.

UNDP	REF. No. 637
Author:	
Date dictated:	8/26
Date typed:	
Date checked:	



UNITED NATIONS DEVELOPMENT PROGRAMME

PROJECT REVISION

COUNTRY: Interregional
PROJECT TITLE: Efficiency of Investment in Water Supply
PROJECT NUMBER: INT/87/024/D/01/42

The above project is amended to show actual expenditures for 1988 and to rephase funds into 1989.

There is no change to the total budget as follows:

Previous UNDP Input - Project Budget Code (C)	<u>US\$300,000</u> line 99 total
Revised UNDP Input - Project Budget Code (D)	<u>US\$300,000</u> line 99 total
Increase/Decrease	<u>US\$ Nil</u>

L. Pouliquen
Agreed on behalf of the Executing Agency
Louis Y. Pouliquen
Director
Infrastructure and Urban Development Dept.
The World Bank

6/23/89
Date

Tina S. Cooper
Agreed on behalf of UNDP

7 Aug. 1989
Date

BUDGET COVERING UNDP CONTRIBUTION (in US Dollars)

Date: April 21, 1989

Project Number: INT/87/024/D/01/42

Project Title: Efficiency of Investments in Water Supply

Components	Total		1987		1988		1989	
	m/m	US\$	m/m	US\$	m/m	US\$	m/m	US\$

10. Personnel	-----							
11.01 Project Manager 1/	0.0	0	0.0	0	0.0	0	0	0
11.02 Expert	16.5	109,000	0.0	0	4.5	23,329	12.0	85,671
11.04 Consultants	14.0	111,000	0.0	25,000	10.0	17,872	4.0	68,128
	0.0							
11.99 Sub-Total	30.5	220,000	0.0	25,000	14.5	41,201	16.0	153,799
13. Admin. Support	0.0	19,460				7,460		12,000
15. Official Travel	0.0	50,540		0		0		50,540
	0.0							
19. Component Total	30.5	290,000	0.0	25,000	14.5	48,661	16.0	216,339

40. Equipment	-----							
42. Non-Expendable Equipment		8,000		0		0		8,000
49. Component Total		8,000		0		0		8,000

50. Miscellaneous	-----							
51. Oper & Maint. Equip.		1,000		0		0		1,000
53. Sundry		1,000		0		0		1,000
59. Component Total		2,000		0		0		2,000

99. Project Total	30.5	300,000	0.0	25,000	14.5	48,661	16.0	226,339
=====								

1/ paid by Bank

THE WORLD BANK / INTERNATIONAL FINANCE CORPORATION
OFFICE MEMORANDUM

Jo

DATE: August 25, 1989

TO: Mr. Raj Krishna, LEGOP - Room E6105

FROM: P. Ljung, Chief, INURD

EXTENSION: 31015

SUBJECT: UNDP Project INT/87/024 - Efficiency of Investment in Water Supply

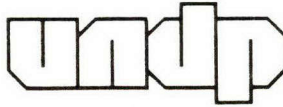
Attached for your records is the original version of budget revision "D" for the above project, duly signed for the Bank by Mr. L. Pouliquen, Director, INU, and by Mr. T. Rothermel for UNDP.

Attachment

cc: Mr. J. Duarte, LOATF
Ms. L. Hamilton, PREVP
Ms. M. Fidel, CODOP
Messrs. B. Gross/J. Olazo, INUWS

/is

RECEIVED
89 AUG 29 10:10:04
INTERNATIONAL FINANCE CORPORATION
WATER & SANITATION DIV.



INT/87/024

21 August 1989

Dear Mr. Ljung,

Re: INT/87/024/D/01/42 - Efficiency of Investment in Water Supply.

In response to your letter of 26 June 1989, enclosed please find one fully signed copy of Budget Revision "D".

With kind regards,

Yours sincerely,

A handwritten signature in dark ink, appearing to read 'Timothy Rothermel', written over a light-colored background.

Timothy Rothermel
Director
Division for Global and Interregional
Programmes

Mr. Per Ljung
Chief
Urban Development Division
Policy, Planning and Research Staff
The World Bank
1818 H. Street, N.W.

UNDP	REF. No. 632
Country:	
Date Received:	8/26
Received by:	
Date Replied:	



UNITED NATIONS DEVELOPMENT PROGRAMME

PROJECT REVISION

COUNTRY: Interregional
PROJECT TITLE: Efficiency of Investment in Water Supply
PROJECT NUMBER: INT/87/024/D/01/42

The above project is amended to show actual expenditures for 1988 and to rephase funds into 1989.

There is no change to the total budget as follows:

Previous UNDP Input - Project Budget Code (C)	<u>US\$300,000</u> line 99 total
Revised UNDP Input - Project Budget Code (D)	<u>US\$300,000</u> line 99 total
Increase/Decrease	<u>US\$ Nil</u>

L. Pouliquen
Agreed on behalf of the Executing Agency
Louis Y. Pouliquen
Director
Infrastructure and Urban Development Dept.
The World Bank

6/23/89
Date

Ting S. Colap
Agreed on behalf of UNDP

7 Aug. 1989
Date

BUDGET COVERING UNDP CONTRIBUTION (in US Dollars)

Date: April 21, 1989

Project Number: INT/87/024/D/01/42

Project Title: Efficiency of Investments in Water Supply

Components	Total		1987		1988		1989	
	m/m	US\$	m/m	US\$	m/m	US\$	m/m	US\$

10. Personnel	-----							
11.01 Project Manager 1/	0.0	0	0.0	0	0.0	0		0
11.02 Expert	16.5	109,000	0.0	0	4.5	23,329	12.0	85,671
11.04 Consultants	14.0	111,000	0.0	25,000	10.0	17,872	4.0	68,128
	0.0							
11.99 Sub-Total	30.5	220,000	0.0	25,000	14.5	41,201	16.0	153,799
13. Admin. Support	0.0	19,460				7,460		12,000
15. Official Travel	0.0	50,540		0		0		50,540
	0.0							
19. Component Total	30.5	290,000	0.0	25,000	14.5	48,661	16.0	216,339

40. Equipment	-----							
42. Non-Expendable Equipment		8,000		0		0		8,000
49. Component Total		8,000		0		0		8,000

50. Miscellaneous	-----							
51. Oper & Maint. Equip.		1,000		0		0		1,000
53. Sundry		1,000		0		0		1,000
59. Component Total		2,000		0		0		2,000

99. Project Total	30.5	300,000	0.0	25,000	14.5	48,661	16.0	226,339
=====								

1/ paid by Bank

BUDGET 'E'

OFFICE MEMORANDUM

DATE: August 3, 1990

TO: Mr. Raj Krishna, LEGOP

FROM: Vittoria Winterton, Program Administrator, INUWS

EXTENSION: 33953

SUBJECT: UNDP Project INT/87/024 - Efficiency of Investment in Water Supply

Attached for your legal records are the original and a copy of the Project Document for the above project.

Attachments

cc with Attachment: Messrs. J. Duarte (LOATF); J. Briscoe (INUWS)
Mmes. L. Hamilton (PRSVP); M. Fidel (CODOP);
S. Baksh (INUWS)

Master File

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~~①~~ ~~112~~
② LS

VW

6 July 1990

orig. to Jo
cc: SB

BG o/w

VW's book

Dear Mike,

Re: INT/87/024/E/01/42 - Efficiency of Investment in Water Supply

....

Further to your letter of 1 June 1990 I am pleased to attach herewith one fully signed copy of the above referenced budget revision "E" of INT/87/024 to show actual expenditures for CY1989 and rephase funds into CY1990.

With kind regards.

Yours sincerely,

Frank

Frank Hartvelt
Deputy Director

Division for Global and Interregional Programmes

Mr. Michael Cohen
Chief
Urban Development Division
Sector Policy and Research
World Bank
1818 H. Street, N.W.
Washington D.C. 20433



INURD	REF. No. 902
Country:	
Date Received:	7/19/80
Replied by:	
Date Replied:	

UNITED NATIONS DEVELOPMENT PROGRAMME

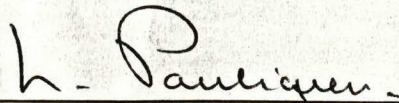
PROJECT REVISION

COUNTRY: Interregional
PROJECT TITLE: Efficiency of Investment in Water Supply
PROJECT NUMBER: INT/87/024/E/01/42

The above project is amended to show actual expenditures for CY1989 and rephase funds into CY1990.

There is no change to the total budget as follows:

Previous Input (Revision D)	US\$300,000
Revised Input (Revision E)	US\$300,000
Increase/Decrease	US\$ Nil



Agreed on behalf of the Executing Agency
Louis Y. Pouliquen
Director

Infrastructure and Urban Development Department

5/30/90
Date


Agreed on behalf of UNDP

22/6/90
Date

BUDGET COVERING UNDP CONTRIBUTION (in US Dollars)

Date: May 17, 1990

Project Number: INT/B7/024/E/01/42

Project Title: Efficiency of Investments in Water Supply

Components	Total		1987		1988		1989		1990	
	m/m	US\$	m/m	US\$	m/m	US\$	m/m	US\$	m/m	US\$

10. Personnel	-----									
11.01 Project Manager 1/	0.0	0	0.0	0	0.0	0		0		0
11.02 Expert	16.5	89,129	0.0	0	4.5	23,329	12.0	65,800		
11.04 Consultants	14.2	159,001	0.0	25,000	10.0	17,872	4.2	45,561		70,568
11.99 Sub-Total	30.7	248,130	0.0	25,000	14.5	41,201	16.2	111,361	0.0	70,568
13. Admin. Support	0.0	44,270				7,460		31,810		5,000
15. Official Travel	0.0	5,201		0		0		4,967		234
18. Over/Under Accrual	0.0	21						21		
19. Component Total	30.7	297,622	0.0	25,000	14.5	48,661	16.2	148,159		75,802

20. Equipment	-----									
41. Expendable		270						270		
42. Non-Expendable Equipment		0		0		0		0		
48. Over/Under Accrual		2,108						2,108		
49. Component Total		2,378		0		0		2,378		0

50. Miscellaneous	-----									
51. Oper & Maint. Equip.		0		0		0		0		
53. Sundry		0		0		0		0		
59. Component Total		0		0		0		0		0

99. Project Total	30.7	300,000	0.0	25,000	14.5	48,661	16.2	150,537		75,802
=====										

1/ paid by Bank

OFFICE MEMORANDUM

DATE: August 6, 1991

TO: Mr. Raj Krishna, LEGOP

FROM: Vittoria Winterton, Program Administrator, INUWS

EXTENSION: 3-3953

SUBJECT: UNDP Project INT/87/024 -- Efficiency of Investment in Water Supply

Attached for your legal records are a signed original and one copy of the project revision INT/87/024/F/01/42.

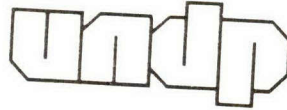
Attachments

cc with attachments:

Mr. H. Langer, FRM
Ms. L. Hamilton, PRSVP
Ms. M. Fidel, CODOP
Ms. S. Baksh, INUWS

File: Master Budget File

LBurgin



~~Braa Co~~
World Development
~~Filer~~

RECEIVED

1991 AUG -1 PM 2:16

INUWS

23 July 1991

Shasta

David
Dear Mr. Howarth,

Subject: INT/87/024 - Efficiency of Investment in
Water Supply (Budget Revision "F")

With reference to your letter of 20 June 1991 I am
.... pleased to return herewith one fully signed copy of the above
referenced budget revision "F" of INT/87/024 to reflect the
actual 1990 expenditures and to rephrase the budget into 1991.

With kind regards.

Yours sincerely,

Timothy S. Rothermel
Director
Division for Global and Interregional
Programmes

Mr. David Howarth
Acting Chief, Water and Sanitation Division
Infrastructure and Urban Development Department
World Bank
1818 H. Street, N.W.
Washington D.C. 20433



UNITED NATIONS DEVELOPMENT PROGRAMME

PROJECT REVISION

Country : Interregional
Project Title : Efficiency of Investment in Water Supply
Project Number : INT/87/024/F/01/42

The purpose of this project revision is to reflect actual expenditures for 1990 and to rephrase the budget into 1991.

Previous UNDP Input - (Revision E)	\$300,000
Revised UNDP Input - (Revision F)	<u>\$300,000</u>
Net Increase (Decrease)	-0- =====

H. Pauliquin
Approved on behalf of the Executing Agency

6/18/91
Date

T. S. Collier
Approved on behalf of the UNDP

24-7-91
Date

BUDGET COVERING UNDP CONTRIBUTION (in US Dollars)

Date: June 6, 1991
 Project Number: INT/87/024/F/01/42
 Project Title: Efficiency of Investments in Water Supply

Components	Total		1987		1988		1989		1990		1991	
	m/m	US\$	m/m	US\$	m/m	US\$	m/m	US\$	m/m	US\$	m/m	US\$
10. Personnel												
11.01 Project Manager 1/												
11.02 Expert	16.5	89,129			4.5	23,329	12.0	65,800				
11.04 Consultants	16.5	157,740		25,000	10.0	17,872	4.2	45,561	2.3	17,307	6.0	52,000
11.99 Sub-Total	33	246,869		25,000	14.5	41,201	16.2	111,361	2.3	17,307	6.0	52,000
13. Admin. Support		39,363				7,460		31,810		93		
15. Official Travel		15,201						4,967		234		10,000
18. Over/Under Accrual		(13,517)						21		(13,538)		
19. Component Total	33	287,916		25,000	14.5	48,661	16.2	148,159	2.3	4,096	6.0	62,000
30. Training												
32. Group Training		1,500										1,500
39. Component Total		1,500		0		0		0		0		1,500
40. Equipment												
41. Expendable Equipment		270						270				
42. Non-Expendable Equipment		5,745										5,745
48. Over/Under Accrual		2,108						2,108				
49. Component Total		8,123		0		0		2,378		0		5,745
50. Miscellaneous												
51. Oper & Maint. Equip.												
53. Sundry		2,000										2,000
58. Over/Under Accrual		461								461		
59. Component Total		2,461		0		0		0		461		2,000
99. Project Total	33	300,000	0	25,000	14.5	48,661	16.2	150,537	2.3	4,557	6.0	71,245

1/ paid by Bank

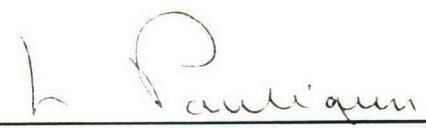
Revision "6"

UNITED NATIONS DEVELOPMENT PROGRAMME
MANDATORY PROJECT REVISION

Country : Interregional
Project Title : Efficiency of Investment in Water Supply
Project Number : INT/87/024/G/01/42

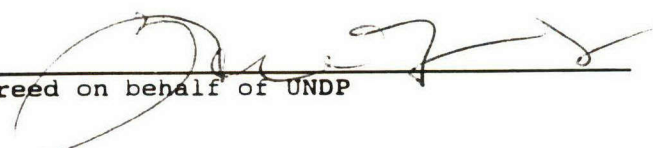
The purpose of this project revision is to reflect actual expenditures for 1991 and to rephase the budget into 1992.

Previous UNDP Input (Budget "F")	\$300,000
Revised UNDP Input (Budget "G")	<u>300,000</u>
Net Increase/Decrease	<u>\$ - 0 -</u>



Agreed on behalf of the Executing Agency

6/12/92
Date



Agreed on behalf of UNDP

27/7/92
Date

UNITED NATIONS DEVELOPMENT PROGRAMME
PROJECT REVISION

Date: June 8, 1992
Project Number: INT/87/024/G/01/42
Project Title: Efficiency of Investments in Water Supply

Components	Total		1987		1988		1989		1990		1991		1992	
	m/m	US\$	m/m	US\$	m/m	US\$	m/m	US\$	m/m	US\$	m/m	US\$	m/m	US\$
10. Personnel														
11.01 Project Manager 1/														
11.02 Expert	16.5	89,129			4.5	23,329	12.0	65,800						
11.04 Consultants	16.5	161,740		25,000	10.0	17,872	4.2	45,561	2.3	17,307		6,000		50,000
11.50 Expert	0.0	2,869										2,869		
11.99 Sub-Total	33.0	253,738		25,000	14.5	41,201	16.2	111,361	2.3	17,307		8,869		50,000
13. Admin. Support		39,363				7,460		31,810		93				
15. Official Travel		15,346						4,967		234				10,145
18. Over/Under Accrual		(13,517)						21		(13,538)				
19. Component Total	33.0	294,930		25,000	14.5	48,661	16.2	148,159	2.3	4,096		8,869		60,145
30. Training														
32. Group Training		1,446											1,446	
39. Component Total		1,446		0		0		0		0			1,446	
40. Equipment														
41. Expendable Equipment		270						270						
42. Non-Expendable Equipment		785											785	
48. Over/Under Accrual		2,108						2,108						
49. Component Total		3,163		0		0		2,378				0		785
50. Miscellaneous														
51. Oper & Maint. Equip.														
53. Sundry														
58. Over/Under Accrual		461								461				
59. Component Total		461		0		0		0		461				0
99. Project Total	33.0	300,000		25,000	14.5	48,661	16.2	150,537	2.3	4,557		11,100		60,145

1/ paid by Bank

THE WORLD BANK/INTERNATIONAL FINANCE CORPORATION
OFFICE MEMORANDUM

DATE: September 7, 1993

TO: Mr. Raj Krishna, LEGOP

FROM: Eileen Monnin, Budget Officer, TWUWU *E Monnin*

EXT: 33090

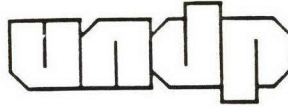
SUBJECT: **UNDP Project Revision - INT/87/024/H/01/42**

Please find attached for your records the original signed copy of Revision "H" of the UNDP project INT/87/024. The Revision was signed on behalf of the Bank by Mr. Louis Pouliquen, Director, TWU, and on behalf of the UNDP by Mr. Frank Hartvelt, Deputy Director, Division for Global and Interregional Projects.

Attachment

cc with attachment: Mr. K. Lau (CTRTA);
Mr. J. Duarte (ACTTF);
Ms. N. Leviste (OPRPGP);
Master File

cc w/out attachment: Mr. J. Briscoe (TWUWS)
Ms. S. Baksh (TWUWU)



INT/87/024

23 August 1993

Dear John,

**INT/87/024, Efficiency of Investment in Water Supply
"Revision H"**

... With reference to your letter of 30 July 1993 we are returning herewith a fully signed copy of budget revision "H" of project INT/87/024, for your records.

With kind regards.

Yours sincerely,

A handwritten signature in black ink, appearing to read 'Frank Hartvelt'.

Frank Hartvelt
Deputy Director
Division for Global and Interregional
Programmes

Mr. John Briscoe
Chief
Water and Sanitation Division
UNDP/World Bank Water and Sanitation
Programme
World Bank
1818 H. St., N.W.
Washington D.C. 20433

cc: Mr. W. Allard/Finance Unit
Mr. H. Kumar



UNITED NATIONS DEVELOPMENT PROGRAMME
MANDATORY BUDGET REVISION

Country : Interregional
Project Title : Efficiency of Investment in Water Supply
Project Number : INT/87/024/H/01/42

The purposes of this mandatory project revision are to reflect actual expenditures for 1992 and to rephase the remaining funds into 1993.

Previous UNDP Input - Project Budget Code "G"	\$300,000
Revised UNDP Input - Project Budget Code "H"	300,000
	<hr/>
UNDP Input Increase/Decrease	-0-
	<hr/> <hr/>

L. Paulignan
Approved on behalf of the Executing Agency

7/25/93
Date

[Signature]
Approved on behalf of UNDP

18/8/93
Date

UNITED NATIONS DEVELOPMENT PROGRAMME
PROJECT REVISION

Date: June 23, 1993
Project Number: INT/87/024/H/01/42
Project Title: Efficiency of Investments in Water Supply

	Total		1987		1988		1989		1990		1991		1992		1993	
	m/m	US\$	m/m	US\$	m/m	US\$	m/m	US\$	m/m	US\$	m/m	US\$	m/m	US\$	m/m	US\$
10. Personnel																
11.01 Project Manager 1/																
11.02 Expert	16.5	89,129			4.5	23,329	12.0	65,800								
11.04 Consultants	16.5	168,201		25,000	10.0	17,872	4.2	45,561	2.3	17,307		6,000	1.3	22,461		34,000
11.50 Expert	0.0	2,869										2,869				
11.99 Sub-Total	33.0	260,199		25,000	14.5	41,201	16.2	111,361	2.3	17,307		8,869	1.3	22,461		34,000
13. Admin. Support		39,363				7,460		31,810		93						
15. Official Travel		10,201						4,967		234						5,000
18. Over/Under Accrual		(15,367)						21		(13,538)				(1,850)		
19. Component Total	34.3	294,396		25,000	14.5	48,661	16.2	148,159	2.3	4,096		8,869	1.3	20,611		39,000
30. Training																
32. Group Training		1,446										1,446				
39. Component Total		1,446		0		0		0		0		1,446		0		0
40. Equipment																
41. Expendable Equipment		270						270								
42. Non-Expendable Equipment		785										785				
48. Over/Under Accrual		2,108						2,108								
49. Component Total		3,163		0		0		2,378		0		785		0		0
50. Miscellaneous																
51. Oper & Maint. Equip.																
53. Sundry		534														534
58. Over/Under Accrual		461								461						
59. Component Total		995		0		0		0		461		0		0		534
99. Project Total	34.3	300,000		25,000	14.5	48,661	16.2	150,537	2.3	4,557		11,100	1.3	20,611		39,534

1/ paid by Bank



UNDP-World Bank Water and Sanitation Program

THE WORLD BANK, 1818 H STREET NW, WASHINGTON, D.C. 20433 • (202) 477-1234 FAX (1-202) 477-0164 TELEX RCA248423

July 30, 1993

Mr. Timothy Rothermel
Director
Division for Global and Interregional Projects
United Nations Development Programme
304 E, 45th Street, Room FF 1294
New York, New York 10017

Dear Mr. Rothermel:

Re: INT/87/024 Efficiency of Investment in Water Supply

Attached for your signature are three copies of Project Revision INT/87/024. The revision was signed by Mr. Louis Pouliquen, Director, Transportation, Water and Urban Development Department. We look forward to receiving one fully signed original soon.

Thank you for your cooperation.

Sincerely yours,

Handwritten signature of John Briscoe in cursive script.
John Briscoe
Chief

Water and Sanitation Division

Attachment.

cl/w: Ms. E. Monnin, TWUWU

SBaksh

UNITED NATIONS DEVELOPMENT PROGRAMME
MANDATORY BUDGET REVISION

Country : Interregional
Project Title : Efficiency of Investment in Water Supply
Project Number : INT/87/024/H/01/42

The purposes of this mandatory project revision are to reflect actual expenditures for 1992 and to rephase the remaining funds into 1993.

Previous UNDP Input - Project Budget Code "G"	\$300,000
Revised UNDP Input - Project Budget Code "H"	300,000
	<hr/>
UNDP Input Increase/Decrease	-0-
	<hr/> <hr/>

L. Pauliquen
Approved on behalf of the Executing Agency

7/28/95
Date

Approved on behalf of UNDP

Date

UNITED NATIONS DEVELOPMENT PROGRAMME
PROJECT REVISION

Date: June 23, 1993
Project Number: INT/87/024/H/01/42
Project Title: Efficiency of Investments in Water Supply

	Total		1987		1988		1989		1990		1991		1992		1993	
	m/m	US\$	m/m	US\$	m/m	US\$	m/m	US\$	m/m	US\$	m/m	US\$	m/m	US\$	m/m	US\$
<u>10. Personnel</u>																
11.01 Project Manager 1/																
11.02 Expert	16.5	89,129			4.5	23,329	12.0	65,800								
11.04 Consultants	16.5	168,201	25,000		10.0	17,872	4.2	45,561	2.3	17,307	6,000		1.3	22,461		34,000
11.50 Expert	0.0	2,869									2,869					
11.99 Sub-Total	33.0	260,199	25,000		14.5	41,201	16.2	111,361	2.3	17,307	8,869		1.3	22,461		34,000
13. Admin. Support		39,363				7,460		31,810		93						
15. Official Travel		10,201						4,967		234						5,000
18. Over/Under Accrual		(15,367)						21		(13,538)				(1,850)		
19. Component Total	34.3	294,396	25,000		14.5	48,661	16.2	148,159	2.3	4,096	8,869		1.3	20,611		39,000
<u>30. Training</u>																
32. Group Training		1,446									1,446					
39. Component Total		1,446	0		0		0		0		1,446		0		0	
<u>40. Equipment</u>																
41. Expendable Equipment		270						270								
42. Non-Expendable Equipment		785									785					
48. Over/Under Accrual		2,108						2,108								
49. Component Total		3,163	0		0		0	2,378		0	785		0		0	
<u>50. Miscellaneous</u>																
51. Oper & Maint. Equip.																
53. Sundry		534														534
58. Over/Under Accrual		461								461						
59. Component Total		995	0		0		0			461	0		0			534
99. Project Total	34.3	300,000	25,000		14.5	48,661	16.2	150,537	2.3	4,557	11,100		1.3	20,611		39,534


1/ paid by Bank

H

OFFICE MEMORANDUM

DATE: October 17, 1994

TO: Mr. Raj Krishna, LEGOP

FROM: Eileen Monnin, TWUWS, 

EXTENSION: 33090

SUBJECT: **UNDP Project Revisions - Global and Interregional Projects**

Attached for the Bank's records is one original each of the following UNDP project revisions. The budgets were signed on behalf of the Bank by Mr. Louis Pouliquen, Director, TWU, and on behalf of UNDP by Mr. Timothy Rothermel, Director, Division for Global and Interregional Projects:

- GLO/91/017 - Revision "D": Capacity Building for Urban Water Demand and Assets Management (Preparatory Assistance Phase)
- GLO/84/007 - Revision "J": Research and Development in Integrated Resource Recovery- Waste Recycling
- INT/87/024 - Revision "I": Efficiency of Investment in Water Supply

Attachments

cc: (with attachments):

Messrs/Mmes. H. Langer (CTRCA), J. Connolly (ACTTF), F. Leviste (OPRPG), K. Tran, S. Baksh (TWUWS)

cc: (w/o attachment): B. Gross, TWUWS)

Master File

SBaksh

UNITED NATIONS DEVELOPMENT PROGRAMME
SEMI-FINAL PROJECT REVISION

Country : Interregional
Project Title : Efficiency of Investment in Water Supply
Project Number : INT/87/024/I/01/42

The purposes of this project revision are to reflect actual expenditures for 1993 and to rephrase the budget into 1994.

Previous UNDP Input (Budget "H")	\$300,000
Revised UNDP Input (Budget "I")	<u>300,000</u>
Net Increase/Decrease	<u>\$ - 0 -</u>

L. Pauliquen
Agreed on behalf of the Executing Agency

6/30/94
Date

[Signature]
Agreed on behalf of UNDP

6/17/94
Date

UNITED NATIONS DEVELOPMENT PROGRAMME
SEMI-FINAL PROJECT REVISION

Date: June 6, 1994
Project Number: INT/87/024/I/01/42
Project Title: Efficiency of Investments in Water Supply

	Total		1987		1988		1989		1990		1991		1992		1993		1994	
	m/m	US\$	/m	US\$	m/m	US\$	m/m	US\$	m/m	US\$	m/	US\$	m/m	US\$	m/m	US\$	m/	US\$
<u>10. Personnel</u>	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
11.01 Project Manager 1/																		
11.02 Expert	16.5	89,129			4.5	23,329	12.0	65,800										
11.04 Consultants	16.5	173,735		25,000	10.0	17,872	4.2	45,561	2.3	17,307		6,000	1.3	22,461		20,499		19,035
11.50 Expert	0.0	2,869										2,869						
11.99 Sub-Total	33.0 34.3	265,733		25,000	14.5	41,201	16.2	111,361	2.3	17,307		8,869	1.3	22,461		20,499		19,035
13. Admin. Support		39,363				7,460		31,810		93								
15. Official Travel		5,201						4,967		234								
18. Over/Under Accrual		(15,367)						21		(13,538)				(1,850)				
19. Component Total	34.3	294,930		25,000	14.5	48,661	16.2	148,159	2.3	4,096		8,869	1.3	20,611		20,499		19,035
<u>30. Training</u>																		
32. Group Training		1,446										1,446						
39. Component Total		1,446		0		0		0		0		1,446		0		0		0
<u>40. Equipment</u>																		
41. Expendable Equipment		270						270										
42. Non-Expendable Equipment		785										785						
48. Over/Under Accrual		2,108						2,108										
49. Component Total		3,163		0		0		2,378		0		785		0		0		0
<u>50. Miscellaneous</u>																		
51. Oper & Maint. Equip.																		
53. Sundry																		
58. Over/Under Accrual		461								461								
59. Component Total		461		0		0		0		461		0		0		0		0
99. Project Total	34.3	300,000		25,000	14.5	48,661	16.2	150,537	2.3	4,557		11,100	1.3	20,611		20,499		19,035

1/ paid by Bank

AG. . PROJECT DELIVERY REPORT (Cumulative January 31, 1994-December 31, 1994)

Executing Agency: 0042
 Project Number: INT-87-024
 Project Title : EFFICIENCY OF INVESTMENTS WATER SUPPLY
 Source of Funds (Inputs): 001
 Budget Revision Code: I
 Currency: USD

Comp. Budget	Description	Impl. Agent	+---Disbursements---+		+-----ULO-----+		+-----Total-----+		AOS USD
			M/M	USD	M/M	USD	M/M	USD	
10	Component: Project Personnel								
11	International Experts								
1104	CONSULTANTS	0042		20,607.48				20,607.48	
1149	Budget-Line Subtotal			20,607.48				20,607.48	
1199	Budget-Line Total			20,607.48				20,607.48	
1900	Component Total			20,607.48				20,607.48	
50	Component: Miscellaneous								
51	Operation and Maintenance								
5198									
5199	Budget-Line Total								
5900	Component Total								
90	Component: Total Costs								
9900	Project Total (all components)			20,607.48				20,607.48	



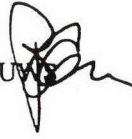
J

OFFICE MEMORANDUM

DATE: May 17, 1995

TO: Mr. Sherif Omar Hassan, LEGOP

FROM: Bruce Gross, Senior Technical Assistance Officer, TWUWS



EXTENSION: 33090

SUBJECT: UNDP Projects.

Attached please find one original each of the following UNDP Projects, for your records.

The budgets of these projects were signed on behalf of the Bank by Mr. Anthony Pellegrini, Director, Transportation, Water, and Urban Development Department, and on behalf of UNDP by Mr. Timothy Rothermel, Director, Science, Technology and Private Sector Division.

They are:

INT/86/027, Final Revision "K"
INT/87/035, Final Revision "J"
INT/87/014, Final Revision "H"
INT/87/013, Final Revision "I"
INT/87/024, Final Revision "J"
GLO/91/017, Final Revision "E"
INT/92/001, Mandatory Revision "E"

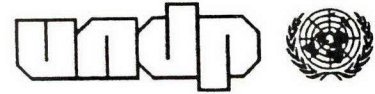
Attachments

cc w/attachments: Messrs/Mmes. F. Wright (CTRТА); D. Martin (ACTTF), J. Connolly (ACTTF),
F. Leviste (OPRPG), K. Tran (TWUWS).

cc w/o attachments: Mr. B. Grover, o/r (TWUWS)

Master Files

KT



11 May 1995


Dear Mr. Grover,

I am pleased to enclose, as requested, one copy each duly signed by Mr. Rothermel of the Budget Revisions of the following projects:

INT/86/027, Final Revision "K"
INT/87/035, Final Revision "J"
INT/87/014, Final Revision "H"
INT/87/013, Final Revision "I"
INT/87/027, Final Revision "J"
GLO/91/017, Final Revision "E"
INT/92/001, Mandatory Revision "E"

Thanks for your cooperation.

Yours sincerely,


Frank Hartvelt
Deputy Director
Science, Technology and Private Sector

Mr. Brian Grover
Program Manager
UNDP-World Bank Water and Sanitation Program
The World Bank
1818H Street NW
Washington, DC 20433

UNITED NATIONS DEVELOPMENT PROGRAMME

FINAL PROJECT REVISION

COUNTRY: INTERREGIONAL
PROJECT TITLE: Efficiency of Investment in Water Supply
PROJECT NUMBER: INT/87/024/J/01/42

The purposes of this project revision are to:

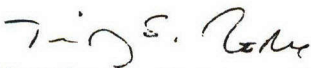
1. reflect actual 1994 disbursements;
2. increase the budget by \$1,572 to cover final expenditures; and
3. close the project.

Previous Project Budget "I"	\$300,000
Revised Project Budget "J"	<u>\$301,572</u>
Net Increase (Decrease)	\$1,572



Agreed on behalf of the Executing Agency

4/21/95
Date



Timothy S. Rothermel, Director,
Agreed on behalf of UNDP
STAPSD

11-5-95
Date

UNITED NATIONS DEVELOPMENT PROGRAMME
FINAL PROJECT REVISION

Date: April 3rd, 1995
Project Number: INT/87/024/J/01/42
Project Title: Efficiency of Investments in Water Supply

	Total		1987		1988		1989		1990		1991		1992		1993		1994	
	m/m	US\$	m/m	US\$	m/m	US\$	m/m	US\$	m/m	US\$	m/m	US\$	m/m	US\$	m/m	US\$	m/m	US\$
10. Personnel																		
11.01 Project Manager 1/																		
11.02 Expert	16.5	89,129			4.5	23,329	12.0	65,800										
11.04 Consultants	19.6	175,307		25,000	10.0	17,872	4.2	45,561	2.3	17,307		6,000	1.3	22,461		20,499	1.8	20,607
11.50 Expert	0.0	2,869										2,869						
11.99 Sub-Total	36.1	267,305	0.0	25,000	14.5	41,201	16.2	111,361	2.3	17,307	0.0	8,869	1.3	22,461	0.0	20,499	1.8	20,607
13.01 Admin Support		39,363				7,460		31,810		93								
15.01 Official Travel		5,201						4,967		234								
18.88 Over/Under Accrual		(15,367)						21		(13,538)				(1,850)				
19.00 Component Total	36.1	296,502	0.0	25,000	14.5	48,661	16.2	148,159	2.3	4,096	0.0	8,869	1.3	20,611	0.0	20,499	1.8	20,607
30. Training																		
32.01 Group Training		1,446										1,446						
39.00 Component Total		1,446		0		0		0		0		1,446		0		0		0
40. Equipment																		
41.01 Expendable Equipment		270						270										
42.01 Non-Expendable Equip		785										785						
48.88 Over/Under Accrual		2,108						2,108										
49.00 Component Total		3,163		0		0		2,378		0		785		0		0		0
50. Miscellaneous																		
51.01 Oper & Maint. Equip																		
53.01 Sundry																		
58.88 Over/Under Accrual		461								461								
59.00 Component Total		461		0		0		0		461		0		0		0		0
99.00 Project Total	36.1	301,572	0.0	25,000	14.5	48,661	16.2	150,537	2.3	4,557	0.0	11,100	1.3	20,611	0.0	20,499	1.8	20,607

1/ paid by Bank

