

PROJECT DATA SHEET

1. TRANSACTION CODE

A = Add
 C = Change
 D = Delete

Amendment Number

1

DOCUMENT CODE

3

2. COUNTRY/ENTITY

Interregional

3. PROJECT NUMBER

936-4127

4. BUREAU/OFFICE

S&T/AGR/RNR

Type C. Field Service

10

5. PROJECT TITLE (maximum 40 characters)

Water Management Synthesis II

6. PROJECT ASSISTANCE COMPLETION DATE (PACD)

MM DD YY
 03 31 83

7. ESTIMATED DATE OF OBLIGATION

(Under "B:" below, enter 1, 2, 3, or 4)

A. Initial FY 82

B. Quarter 3

C. Final FY 82

8. COSTS (\$000 OR EQUIVALENT \$1 =)

A. FUNDING SOURCE	FIRST FY 1982			LIFE OF PROJECT		
	B. FX	C. L/C	D. Total	E. FX	F. L/C	G. Total
AID Appropriated Total	350	-	350	350	-	350
(Grant)	(350)	(-)	(350)	(350)	(-)	(350)
(Loan)	()	()	()	()	()	()
Other U.S. 1.						
Other U.S. 2.						
Host Country						
Other Donor(s)						
TOTALS	350	-	350	350	-	350

9. SCHEDULE OF AID FUNDING (\$000)

A. APPROPRIATION	B. PRIMARY PURPOSE CODE	C. PRIMARY TECH. CODE		D. OBLIGATIONS TO DATE FY 1982		E. AMOUNT APPROVED THIS ACTION FY 1982		F. LIFE OF PROJECT	
		1. Grant	2. Loan	1. Grant	2. Loan	1. Grant	2. Loan	1. Grant	2. Loan
(1) ARDN	129I	974	-	138	-	212	-	350	-
(2)									
(3)									
(4)									
TOTALS				138	-	212	-	350	-

10. SECONDARY TECHNICAL CODES (maximum 6 codes of 3 positions each)

022 064 874 - - -

11. SECONDARY PURPOSE CODE

None

12. SPECIAL CONCERNS CODES (maximum 7 codes of 4 positions each)

A. Code BF TECH TNG XI1 INTR - -
 B. Amount 300 320 115 350 350 - -

13. PROJECT PURPOSE (maximum 480 characters)

To provide technical assistance, methodologies, special studies and training to help host-countries improve their capabilities to plan and implement programs which will increase the economic efficiency of irrigation water use.

14. SCHEDULED EVALUATIONS

Interim MM YY MM YY Final MM YY

15. SOURCE/ORIGIN OF GOODS AND SERVICES

000 941 Local Other (Specify)

16. AMENDMENTS/NATURE OF CHANGE PROPOSED (This is page 1 of a page PP Amendment)

This amendment establishes 24 additional worker-months of technical services and related expenses, including the development of training courses, handbooks and planning guides as well as the rendering of technical assistance to A.I.D. Missions and LDCs, and will require an additional \$212,000 for a total LOP, to date, of \$350,000.

17. APPROVED BY

Signature

Curtis Farrar

Title Actg. Senior Asst. Administrator
 Bureau for Science and Technology

Date Signed

MM DD YY
 05 10 82

18. DATE DOCUMENT RECEIVED IN AID/W, OR FOR AID/W DOCUMENTS, DATE OF DISTRIBUTION

MM DD YY

BEST AVAILABLE COPY

PROJECT AUTHORIZATION AND REQUEST FOR ALLOTMENT OF FUNDS
PART II

ENTITY: Bureau for Science and Technology

PROJECT TITLE: Water Management Synthesis-II

PROJECT NUMBER: 936-4127

1. I hereby authorize additional FY82 grant funds totaling \$212,000 to fund approximately 24 worker-months of technical services (and related expenses), including the development of training courses, the preparation of handbooks and planning guides, and the provision of technical assistance to A.I.D. Missions and host-countries, as outlined in the attached Scope-of-Work.

2. It is the intent of S&T/AGR to implement this \$212,000 in technical services by amending Contract AID/DSAN-C-0058 with the Consortium for International Development (CID), which will be negotiated non-competitively, based on CID's predominant capability.

Curtis Farrar
Acting Senior Assistant Administrator
Bureau for Science and Technology
Date Curtis Farrar 5/10/82

Attachments:

- Action Memorandum from Fiester to Robins
- Budget and Scope-of-Work for specified \$212,000 funding amendment.

Clearances:

S&T/AGR/RNR:LWFitzgerald _____ date _____
S&T/AGR/RNR:TGill _____ date _____
S&T/AGR:MMozynski _____ date _____
S&T/AGR:DFiester _____ date _____
S&T/PO:BChapnick _____ date _____

S&T/AGR/RNR:LWFitzgerald:bb:4/12/82:4/14/82:5/10/82:235 8993

APR 30 1982

ACTION MEMORANDUM FOR THE AGENCY DIRECTOR FOR FOOD AND AGRICULTURE, BUREAU FOR SCIENCE AND TECHNOLOGY

FROM: S&T/AGR, Donald R. Fiester



Problem: Your approval is required to obligate \$212,000 in FY82 funds against the "Water Management Synthesis-II" project, established in the OYB at \$2.9 million (\$2.0 million of S&T/AGR funds, \$0.6 million transferred to S&T/AGR OYB by the Asia Bureau and \$0.3 million to be transferred by S&T/MD). This \$212,000 will provide supplemental funding to contract AID/DSAN-C-0058, with the Consortium for International Development (CID) for the provision of additional technical services to be utilized in the continued development of new training courses, preparation of handbooks and planning guides and provision of technical assistance to A.I.D. Missions and host-countries in the area of irrigation water management, until a new contract is negotiated and signed with CID and the "Synthesis-II" project becomes fully operational.

Background and Discussion: The "Water Management Synthesis" project is designed to provide assistance and useful development tools to USAIDs and host-countries in helping them address both the problems of low irrigation system efficiency and poor (overall) irrigation sector performance. The project's purpose is to assimilate knowledge and 'lessons learned' under earlier research and development activities in this area, and to facilitate the transfer, adaptation and adoption of proven irrigation water management practices, technologies and methods throughout the developing world. In so doing the project is charged with developing training courses, including their demonstration/testing in selected countries; the preparation of technical handbooks and planning guides, to assist in the transfer of improved water management practices and technologies; and, the provision of short-term technical assistance to A.I.D. Missions and host-countries in a variety of areas related to irrigation water management.

The project is being implemented by the Consortium for International Development (CID) under contract AID/DSAN-C-0058; however, the above components are only modestly funded and, as a result of greatly increased interest (which the present project is largely responsible for generating), it is not possible to continue to service the growing number of requests for assistance, unless funding levels are increased. Moreover, even though the "Water Management Synthesis-II" project, which is being jointly-funded by the Asia and Science and Technology Bureaus, will allow a significant broadening and expansion in the scope and level of services to meet this need, it does not off-set the desirability of increasing funding under the present contract as an interim measure. For, it will likely be 3 - 4 months before the approval process is finalized, a new contract with CID negotiated and signed, and the contractor able to effectively respond to this need. Thus, the requested increase in funding under the current contract is being requested as an interim 'bridging' mechanism to both service the growing, urgent demand for technical assistance by A.I.D. Missions and host-countries and to allow the contractor to better mobilize to meet this need until the follow-on ("Synthesis-II") contract is in place.

On this latter point, it should be noted that the Agency's Non-Competitive Review Board has approved the S&T Bureau's request to negotiate non-competitively with CID for providing services required under the (new) Water Management Synthesis-II project, thereby ensuring contractual continuity between the two projects as well as consistency in terms of the projects' overall purposes and goals. However, mobilizing effectively to meet this increased, interim demand for short-term technical assistance requires some expansion in full-time staff, which can only be justified if an adequate set of core activities are continued to utilize staff time efficiently between TDY (technical assistance) assignments. This, then, being the reason for initiating new training course development and handbooks/planning guide preparation activities at this time rather than postponing them until the "Synthesis-II" contract is in place.

While neither a complete nor detailed scope-of-work can be specified at this time, a brief description and justification of the broad activity-areas, for which these funds will be utilized is set forth below (These are elaborated on more fully in the Statement of Work attached to the corresponding PAF):

1. Training Course Development

The 'Diagnostic Analysis' course identified in subsection I,B,(3) of the Statement of Work (Contract AID/DSAN-C-0058) has both been developed and field tested in two countries, as called for. The results have been very satisfactory but have also revealed the serious need for additional courses to enable host-country officials and technicians to effectively address other aspects of poor water management. Two new courses are to be developed, including development of course outlines and written background material, as well as all subject matter information required. This will also include the development of necessary training aids, lists of equipment and other materials needed to conduct the courses. Actual testing and demonstration of the courses in the field, as well as any subsequent refinement will not be undertaken as part of this contract but deferred and taken up under the (new) "Water Management Synthesis-II" project contract, which is scheduled to be operational by the time the above development is completed.

2. Handbook and Planning Guide Preparation

Several handbooks and planning guides have been developed and distributed to date under the project. These have been well received, with demand for them far exceeding the number originally budgeted for and printed. Thus, there is an urgent need to undertake reprintings as well as to continue to translate them into French and Spanish, as requests for them from both West African (French speaking) and Latin American (Spanish speaking) countries continue to grow. There is also an urgent need to expand the set of handbooks and guides as quickly as possible, as the interest in water management spreads and grows and the demand for further information, knowledge and know-how regarding water management concepts, practices and technologies also expands.

Two new handbooks/guides are to be developed--one on processes and procedures for monitoring and evaluating farm irrigation systems and one for improving the effective use of irrigation water on the farms. Correspondingly, reprinting and translation of those handbooks and guides already developed is to be undertaken in quantities to be determined by the AID project manager.

3. Technical Assistance to USAIDs and Host-Countries

In addition to those assistance-requests already designated (either in the original contract or subsequent/previous amendments), the contractor is to provide 12 person-months of technical assistance to A.I.D. Missions and host-countries during the remaining life of the contract and/or until the current contract is merged/folded into the (new) "Water Management Synthesis-II" contract, which is expected to become operational on or about 9/1/82. Below is an illustration list of assistance requests that have been identified to date and serve as an example of the types of assistance that will be rendered:

a. Irrigation Sector Survey - Ecuador:

In follow-up to earlier technical assistance provided by the Water Management Synthesis project, the Government of Ecuador, through USAID/Quito, has requested assistance in carrying out a survey/analysis of their irrigated-agriculture sector. The study would be similar to those already carried out by the contractor (under the present contract) in India, Pakistan, Thailand and Bangladesh, as well as the one presently scheduled for Sri Lanka.

b. Project Analysis - Morocco:

The REgional Agricultural Development Office of Doukkala, Morocco (ORMVAD) manages approximately 40,000 hectares of which approximately half has already been equipped for gravity and/or sprinkler irrigation. ORMVAD is considering turning over the entire system operation to the farmers and is interested in organizing/establishing effective user-organizations that can effectively manage and maintain the system. Through USAID/Rabat, the Government of Morocco plans to request assistance in studying/analyzing the situation and assessing the merits and possibilities of alternative approaches and ways of undertaking the transfer in responsibility.

c. Training Needs Assessment - Mauritania:

New project in Mauritania, being funded by IFAD (International Fund for Agricultural Development), is designed to provide training for extension staff in subjects of crop production, in an effort to improve the productivity and output of recently developed irrigated areas where performance remains low.

However, inadequate provisions appear to have been made for addressing the problems and causes of poor water management (irrigation-water allocation, distribution and use). The Government of Mauritania, through USAID/Nouakchott is planning to request assistance to assess the needs in this area.

It should also be mentioned that in addition to the increased funding being requested herein, the Asia Bureau is also adding \$315,000 to the current contract (AID/DSAN-C-0058) to cover the cost of several specific technical assistance requests by Missions/host-countries within its region, which also can not wait until the "Synthesis-II" project/contract is in place.

Finally, it should be noted that this action will not require an OYB increase, since this amount (\$212,000) will be taken from funds already programmed by S&T/AGR for the Water Management Synthesis-II project. This shift in use is both allowable and consistent with the above-noted decision to utilize the present contract with CID to service urgent assistance requests that can not otherwise be deferred and provided under the new contract.

Recommendation: That you approve the \$212,000 against the Water Management Synthesis-II project for the provision of supplemental funding under Contract AID/DSAN-C-0058, by signing the attached PAF. A signed copy of the Memorandum, "Justification for Non-Competitive Procurement based upon Predominant Capability," is also attached for your information.

Attachments: a/s

Clearances:

S&T/AGR/RNR:TGill	<u>TGill</u>	date	<u>4/22/82</u>
S&T/AGR:MMozynski	<u>MMozynski</u>	date	<u>4/23/82</u>
S&T/PO:BChapnick	<u>Be</u>	date	<u>5/9</u>


S&T/AGR/RNR:LWFitzgerald:bb:4/12/82:4/15/82:235 8993

STATEMENT OF WORK

A. Objective

The effectiveness and success of the "Water Management Synthesis" project (WMS-I) has resulted in a greatly expanded demand for technical assistance in the area of irrigation water management, by missions and host-countries. It has likewise generated an increased demand for training in this area and the corresponding need to develop additional training courses as well as for handbooks, planning guides and 'how-to-do' manuals on achieving improved water management. This demand and need has in turn resulted in the development of a follow-on "Water Management Synthesis-II" project (WMS-II) to replace the smaller and more-restricted WMS-I project scheduled to terminate 3/31/83.

However, it is expected to take 3 - 4 months to formally approve this new (WMS-II) project, to carry out and complete contract negotiations and to allow the contractor to adequately mobilize to provide the services required. On the other hand, the demand referred to is upon us and can not wait for WMS-II to become operative. Thus, a 'bridging' mechanism is needed and the present contract (AID/DSAN-C-0058) with the Consortium for International Development (CID) provides an interim means of providing the required services, if the necessary funding is made available. This, then, is the purpose of this amendment -- to provide additional funding to contract AID/DSAN-C-0058, whereby the following categories of activities, specified in the Scope of Work below, can be expanded and/or continued, as is determined necessary.

The Agency's Non-Competitive Review Board has approved the request to negotiate non-competitively with CID for providing the services required under WMS-II and has, thereby, ensured contractual continuity between the two projects as well as that of program consistency and follow-on, in terms of the projects overall purposes and goals.

B. Scope of Work

Following is a brief description of the activities for which the additional funding authorized by this PIO/T will be used. These are well within the range of activities specified in the project document as well as the Statement of Work of Contract AID/DSAN-C-0058, particularly subsections I,B,(3) - Training Courses; I,B,(4) - Handbooks; and, I,B,(6) - Technical Assistance:

1. Training Courses:

The 'Diagnostic Analysis' course identified in subsection I,B,(3) has both been developed and field tested in two countries, as called for. The results have been very satisfactory but have also revealed the serious need for at least two additional courses to enable host-country officials and technicians to effectively address other aspects of poor water management. These courses are briefly described below and include the development of a course outline, written background material as well as all subject matter included/required. It will also include the development of necessary training aids, list of equipment and other materials needed to conduct the courses. Actual testing and demonstration

of the courses in the field, as well as any subsequent refinement will not be correct under this contract but deferred and taken up under the (new) Water Management Synthesis-II project which will be operational at that time and contain funding for that purpose.

a. Intensive Water Management Course (8 pm) - The contractor will develop and make available an intensive water management training course for senior trainers and irrigation managers. The course will cover a six to eight week period and will be scheduled each summer of the five year contract period to 25 participants (at least ten from Asian countries) will be included in each course and it will use methodologies and procedures developed under the diagnostic analysis and other training courses supplemented by a focus on training methods. The course will include a ten day to two week field trip to study different irrigation systems in the Western USA. The participant focus will be on managers of irrigation systems, such as executive and deputy engineers and senior trainers.

b. Training of Trainers Course - With the need for training in water management being increasingly recognized and requests for assistance in development host-country training capabilities growing, there has emerged a critical demand for a comprehensive course for training LDC trainers and the establishment of national training programs in this area. Thus, the contractor will develop a course or series of courses (as the need and requirements dictate) to equip host-country to establish and carry out effective training programs in the water management area. The course should cover a 6 - 8 week training period and contain both classroom and in-the-field instructions and demonstrations as well as field trips as may be deemed appropriate. It should focus on instructional procedures and methods as well as subject matter content and should be designed to be conducted in-country in either a regional or single-country trainind mode.

2. Handbooks and Planning Guides:

The several handbooks and planning guides developed and distributed to date under the project and contract have been well received, with the demand far exceeding the number originally budgeted for and printed. Thus, there is an urgent need to undertake reprintings as well as to continue to translate them into French and Spanish as requests for them from both West African (French speaking) and Latin American (Spanish speaking) countries continue to grow. There is also an urgent need to expand the set of handbooks and guides as quickly as possible as the interest in water management spreads and grows and the demand for further information, knowledge and know-how regarding water management concepts, practices and technologies also expands.

a. Develop Two New Handbooks/Guides - Thus, the contractor will develop two additional handbooks/guides as briefly outlined below, with the decision as to which form they should take on being decided in consultation with the A.I.D. project manager:

(i) Handbook/Guide describing the processes and procedures for regular monitoring and evaluating farm irrigation systems by both farmers and/or systems operators.

(ii) Handbook/Guide for improving the effective use of irrigation water on the farms under both scarce and non-scarce water supply situations, with special focus on how to transfer this knowledge to farmers on a regular basis. Both will be in clear, concise language with appropriate illustrations to help readers use the materials effectively. 2,000 English copies will be developed as well as French and Spanish versions developed and printed in 500 copies each.

b. Reprintings and Translations - In consultation with the A.I.D. project manager, the contractor will undertake the reprinting of the following guides and handbooks, in volumes deemed appropriate to meet estimated demand for the next two years, as well as to undertake their translation into both French and Spanish and respective printings in sufficient (to be determined) copies.

(i) Handbook No. 1 - Circular Concrete Irrigation Turnout: Design and Construction.

(ii) Planning Guide No. 1 - Land Leveling (already translated to French and Spanish).

(iii) Planning Guide No. 2 - Farmer Involvement.

(iv) Planning Guide No. 3 - Farm Irrigation Structures (Document just being completed).

3. Technical Assistance:

In addition to that already designated (in either the original contract or subsequent/previous amendments), the contractor is to provide 12 person-months of technical assistance to A.I.D. Missions and host-countries during the remaining life of the contract and/or until the current contract is merged/folded into the new Water Management Synthesis-II contract, which is expected to become operational on or about 9/1/82. Below is an illustration list of assistance requests that have been identified to date and serve as an example of the types of assistance that will be rendered:

a. Irrigation Sector Survey - Ecuador: In follow-up to earlier technical assistance provided by the Water Management Synthesis project, the Government of Ecuador, through USAID/Quito, has requested assistance in carrying out a survey/analysis of their irrigated-agriculture sector. The study would be similar to those already carried out by the contractor (under the present contract) in India, Pakistan, Thailand and Bangladesh, as well as the one presently scheduled for Sri Lanka.

b. Project Analysis - Morocco: The Regional Agricultural Development Office of Dankkala, Morocco (ORMVAD) manages approximately 40,000 hectares of which approximately half has already been equipped for gravity and/or sprinkler irrigation. ORMVAD is considering turning over the entire system operation to the farmers and is interested in organizing/establishing effective user-organizations that can effectively manage and maintain the system. Through USAID/Rabat, the Government of Morocco plans to request assistance in studying/analyzing the situation and assessing the merits and possibilities of alternative approaches and ways of undertaking the transfer in responsibility.

c. Training Needs Assessment - Mauritania: New project in Mauritania, being funded by IFAD (International Fund for Agricultural Development), is designed to provide training for extension staff in subjects of crop production, in an effort to improve the productivity and output of recently developed irrigated areas where performance remains low. However, inadequate provisions appear to have been made for addressing the problems and causes of poor water management (irrigation-water allocation, distribution and use). The Government of Mauritania, through USAID/Nouakchott is planning to request assistance to assess the needs in this area.

PROPOSED BUDGET

PROJECT TITLE: Water Management Synthesis-II
PROJECT NUMBER: 936-4127
FOR CONTRACT NO: AID/DSAN-C-0058

<u>Line Item</u>	<u>Amount</u>
1. Salaries (24 worker-months @ \$4,750/wm ^{1/})	\$114,000
2. Travel and Per Diem	32,000
3. Equipment and Publications	10,000
4. Other Direct Costs	4,000
5. Indirect Costs	39,000
6. Overhead (CID A&G)	<u>13,000</u>
TOTAL	\$212,000

^{1/}Includes fringe benefits, allowances, etc.

MEMORANDUM

TO: SER/CM/COD/AN, Mr. Morton Darwin

FROM: S&T, N. C. Brady *(Signature)*

SUBJECT: Request for Approval of a Non-Competitive Procurement Action, Based on Predominant Capability under ADIPR 7-3.101-50(b)(3), for Contract DSAN-C-0058 with the Consortium for International Development (CID) - Water Management Synthesis Project.

Action Requested: Approval is hereby requested for a non-competitive procurement action, based on predominant capability, to increase contract DSAN-C-0058, with the Consortium for International Development (CID), by \$527,000 to a (new) total of \$2,905,126.

Background and Discussion: The Water Management Synthesis project (931-1007), being implemented under Contract AID/DSAN-C-0058 with the Consortium for International Development (CID), is designed to provide AID missions and host-countries with technical assistance and useful development tools related to improving the efficiency of irrigation systems and better performance of their irrigated-agricultural sectors. The project aims to achieve this through: (i) the assimilation of knowledge and 'lessons learned' from previous research and development projects/activities; and, (ii) facilitating the transfer adaptation and adoption of proven irrigation-water management practices, technologies and methods throughout the developing world. In so doing, the project is also charged with developing and providing training in selected countries (in support of planned or on-going irrigation improvement efforts) and to offer short-term technical assistance in a variety of areas related to water management.

The project has been very well received and has generated interest far in excess of its ability to respond, particularly with regard to training and short-term technical assistance needs. As a result of this expanded interest and expressed need by missions and host-countries, a follow-on "Water Management Synthesis-II" project, to be jointly-funded by the Asia and Science and Technology Bureaus, has been developed to service this demand. However, it will be 3-4 months before this project is formally approved, contract negotiations completed and the project operational. Thus, because the above-noted needs for assistance are urgent, a way must be found to utilize the present contract with CID (Water Management synthesis-I project) to serve as an interim 'bridging' mechanism, whereby the required services can be made available. Unfortunately, while the contract provides the needed mechanism, substantial (additional) funding will be necessary, even for this relatively-short interim period, in view of these greatly-expanded needs and the very modest funding available. This, then, is the purpose of this proposed amendment--to increase funding and enable the Contractor (CID) to adequately respond to this need.

On this point it should be noted, that the Agency's Non-Competitive Review Board has already approved the S&T and Asia Bureaus' request to be allowed to negotiate non-competitively with CID (on the basis of predominant capability), in seeking an implementation contractor for the "Water Management Synthesis-II" project. Thus, contractual continuity between these two projects has been assured as well as that of program consistency and follow-on, which is extremely important. And, although it is not possible at this time to outline completely or in detail the services to be rendered during this interim, below is a partial listing of requests that have already been received:

- (1) Project Design Assistance (India): Three-person design team to assist USAID/New Delhi design and prepare the project paper for a (new) Water Management and Training project, to be approved in FY1982.
- (2) Project Design Assistance (India): Four-person design team to assist USAID/New Delhi with design of project and preparation of the project paper for the (new) Madhya Pradesh Minor Irrigation Project, to be approved in early FY1983.
- (3) Training Consultant (India): Five weeks of consultancy in area of water management training related to Narmada System Analysis project.
- (4) Diagnostic Analysis Workshop (Sri Lanka): Funding to allow expanded participation in Diagnostic Analysis (water management) workshop scheduled to be held in Sri Lanka in June/July 1982.
- (5) Short-Term Technical Assistance (Pakistan): Up to six months of short-term technical assistance (hydrologist, soil scientist, agri-engineer) during June/August 1982.
- (6) Irrigation System Design (Burma): Three-months consultancy to assist Oil Seeds/Maize Project develop irrigation system designs for seed farms to be established under project.
- (7) FAO Water Management Workshop (Pakistan): Provide lecturer and advisor to FAO Water Management Workshop to be held in Faicalbad, Pakistan in May 1982.
- (8) Consultancy Needs (Bangladesh): Up to four months of consultancy during summer 1982 in areas of technical journalism, water law and water policy.
- (9) Irrigation Sector Survey (Ecuador): Conduct a survey and assessment of Ecuador's irrigation sector to identify problems, needs and potential relative to its development and improvement.
- (10) Project Analysis (Morocco): Assist the Regional Agricultural Development Office of Daukkala (Morocco) organize farmers into water-users organizations for managing/operating a 40,000 hectare irrigation system in that area.

(11) Training Needs Assessment (Mauritania): Assist GOM assess water management training needs in conjunction with (new) IFAD-funded irrigation training project under consideration.

Justification: In accordance with the provisions of 43FR24839, subpart 7-3.1, para. 7-3.101-50(b)(3), Justification for Non-Competitive Negotiation, the following justification is provided:

On September 29, 1978, the original contract (DSAN-C-0058) was awarded competitively to CID, after evaluating proposals from the four following institutions and firms:

- Consortium for International Development (CID)
- Frederickson, Kamine and Associates
- Louis Berger International Inn
- Snell Environmental Group

CID's performance to date has been extremely satisfactory and the contractor received very high marks from the mid-life project evaluation team (12/80), stating that the quality of the outputs to date had been excellent. Other indicators of quality performance include the much greater-than-anticipated demand for services (particularly repeat services) by missions and host-governments, which are in large measure a result of the success of the project's previous activities.

While other contractors have been considered, including those institutions/firms originally submitting proposals, it has been determined that it would be too costly and time consuming for these to develop the expertise needed to service the requests expected over the next 4-6 months (for which these additional funds are intended). Moreover, they would not benefit from the experience that has been gained under the Water Management Synthesis project, to which the identified and anticipated assistance needs directly relate.

CID is a consortium composed of 11 universities, including the University of Oregon, Colorado State University, Texas Tech, Utah State University, Arizona State University, California State Polytechnic University, Montana State University and New Mexico State University, who have the major experience and expertise in the area of Water Management. Under the contract, CID can not only draw on the vast resources of these institutions but also available from all of its member Universities and Institutions and can utilize the materials developed under the original contract, as well as the experience gained from undertaking similar activities.

Consequently for the reasons given above, I hereby certify that the special capability of CID based on its predominant capability in the area of water management are necessary for the successful continuation and expansion of

these services; and, that these particular capabilities are not possessed by any other institution in the United States. Thus, the Bureau for Science and Technology feels that it is necessary to negotiate only with CID for this increase in services and that to negotiate with any other contractor would be most undesirable, impractical and require a substantial duplication of government funds and additional expenditures above the estimated cost of this proposed contract amendment. This position is strengthened by the fact that also based on predominant capability, the Non-Competitive Review Board has approved the S&T Bureau's request to negotiate non-competitively with CID in seeking a contractor for implementing the "Water Management Synthesis-II" project, which is a direct follow-on of the activities under the present contract.

Recommendations: I recommend that AID negotiate non-competitively with CID to increase contract AID/DSAN-C-0058, under the Water Management Synthesis project, by \$527,000 to a new total of \$2,905,126. This additional funding being provided from the following sources; corresponding PIO/Ts are attached:

Asia Bureau	315,000
S&T Bureau	<u>212,000</u>
TOTAL	\$527,000

Clearances:

S&T/AGR/RNR, W. Fitzgerald	<u>W. Fitzgerald</u>	date <u>4/20</u>
S&T/AGR/RNR, T. Gill	<u>T. Gill</u>	date <u>4/20</u>
S&T/AGR, D. Fiester	<u>D. Fiester</u>	date <u>4/20</u>
S&T/FA, J. Robins	<u>J. Robins</u>	date <u>4/20</u>

S&T/AGR/RNR, L.W.Fitzgerald:bb:2/23/82:2/26/82:3/9/82:4/13/82:4/15/82:235 1275