

9310079(4)

AGENCY FOR INTERNATIONAL DEVELOPMENT

PROJECT PAPER FACESHEET

1. TRANSACTION CODE

C

A ADD
C CHANGE
D DELETE

PP

PD-AAC-537-A1

2. DOCUMENT CODE

3

3. COUNTRY ENTITY

Inter-regional RDA-13 DSB/HEA

4. DOCUMENT REVISION NUMBER

1

5. PROJECT NUMBER (7 digits)

931-0079.16

6. BUREAU OFFICE

A. SYMBOL
DSB/HEA

B. CODE
36

7. PROJECT TITLE (Maximum 40 characters)

Utilization-Evaluation of AID Handpump

8. ESTIMATED FY OF PROJECT COMPLETION

80

9. ESTIMATED DATE OF OBLIGATION

A. INITIAL FY 76

B. QUARTER 4

C. FINAL FY 78

(Enter 1, 2, 3, or 4)

10. ESTIMATED COSTS (\$000 OR EQUIVALENT \$) -

A. FUNDING SOURCE	FIRST FY 76			LIFE OF PROJECT		
	B. FX	C. L/C	D. TOTAL	E. FX	F. L/C	G. TOTAL
AID APPROPRIATED TOTAL	126		126	174		174
(GRANT)	126		126	174		174
(LOAN)						
OTHER U.S. 1						
OTHER U.S. 2						
HOST COUNTRY						
OTHER DONOR(S)						
TOTALS	126		126	174		174

11. PROPOSED BUDGET APPROPRIATED FUNDS (\$000)

A. APPROPRIATION	B. PRIMARY PURPOSE CODE	PRIMARY TECH. CODE	E. 1ST FY 76		H. 2ND FY 77		K. 3RD FY 78			
			C. GRANT	D. LOAN	F. GRANT	G. LOAN	I. GRANT	J. LOAN	L. GRANT	M. LOAN
(1) OH	512	541		126					48	
(2)										
(3)										
(4)										
TOTALS				126					48	

A. APPROPRIATION

N. 4TH FY 79

O. 5TH FY 80

LIFE OF PROJECT

12. IN-DEPTH EVALUATION SCHEDULE:

A. APPROPRIATION	N. 4TH FY 79		O. 5TH FY 80		LIFE OF PROJECT	
	C. GRANT	P. LOAN	R. GRANT	S. LOAN	T. GRANT	U. LOAN
(1) OH					174	
(2)						
(3)						
(4)						
TOTALS					174	

MM YY
019810

13. DATA CHANGE INDICATOR. WERE CHANGES MADE IN THE PID FACESHEET DATA, BLOCKS 12, 13, 14, OR 15 OR IN PRP FACESHEET DATA, BLOCK 12? IF YES, ATTACH CHANGED PID FACESHEET.

1 1 = NO
2 = YES

14. ORIGINATING OFFICE CLEARANCE

SIGNATURE

Vee M. Howard, M.D.

TITLE

Director, Office of Health Development Support Bureau

DATE SIGNED

MM DD YY
0132778

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

MM DD YY
0132778

Summary Statement of Amended Scope for PP

1. General

One of the purposes for the approved PP was to promote utilization of information gathered through previous research contracts on handpumps and adaptation to local manufacture. The intent of the approved PP was to initiate manufacture, evaluate field utilization characteristics and engage in adaptation/utilization information exchange in those LDC selected for the project. (Originally, the project was to be accomplished in 3 LDCs in Africa, but was later changed, after contracting, to two sites in Central America). There was no intent in the original PP to provide a technical assistance function (evaluation of local manufacture of AID handpump feasibility in any LDCs other than those originally settled upon for the field evaluation studies) as a service to many LDC missions that either have or will be starting extensive rural water supply (handpump) programs. Countries starting handpump programs include: Pakistan, Bangladesh, Indonesia, Philippines, Nicaragua, Honduras, Costa Rica, Chad, Panama, Bolivia, Upper Volta, Tunisia, Togo, Ghana, Ivory Coast, Mali, and Dominican Republic. Pakistan alone is attempting a 110,000 handpump program. These missions now need and want this technical assistance function available to them.

2. Intent of Amending PP to Include Limited Technical Assistance Function

The increased Scope of Work proposed to be carried out by the Economic Development Laboratory (EDL) Engineering Experiment Station, Georgia Institute of Technology under current AID Contract AID/ta-C-1354 (\$126,000) dated 27 September 1976 is intended to provide a mechanism by which AID missions can secure expedient technical assistance (under minimized AID project management time requirements) to obtain a survey and evaluation of the feasibility of local manufacture of the AID handpump based upon the unique experiences of local manufacture of the AID handpump in Nicaragua and Costa Rica in 1977. The AID handpump, LDC local manufacture experience that the EDL received as a result of the handpump program in Nicaragua and Costa Rica is unique and cannot be reproduced in a reasonable time period by any other organization. The current handpump being manufactured and tested in Nicaragua and Costa Rica, is distinct and different in many ways, including quality, from those AID/Battelle shallow well handpumps locally manufactured by UNICEF in Bangladesh and by the Nigerian Foundries Limited in Lagos, Nigeria. The designs being used in the current AID handpump project are cleaner, stronger and more maintenance free than the other AID/Battelle designs known to this technical office.

The missions need technical assistance not usually available in the missions when embarking on rural water supply and sanitation programs. Because of a severe shortage of technicians intimately familiar with rural water supply programs, problems, equipment and alternatives, the missions usually must rely upon technical assistance from appropriate technical offices in the Development Support Bureau or outside consultants.

Unfortunately, at a time when tremendous multilateral, bilateral and national investments are about to be made in rural water supplies (estimated at \$60 billion in the next 12 years at U.N. Water Conference, Mar del Plata) there are really very few organizations or individuals who are experienced in (1) handpumps, (2) evaluation of feasibility of local manufacture of the AID handpump, (3) setting up local manufacture of the AID handpump, (4) monitoring and ensuring quality control, and (5) assisting LDC handpump program implementing organizations get operational and organized for installation, operation and maintenance of a handpump program.

The EDL is a resource that has the experience and capability to function very capably in this area primarily as a result of the current contract and approximately 5 years of 211(d) funding to the EDL from AID to stimulate industrial development in the LDCs.

3. Proposed Additional Scope of Work for Project Paper

The Scope of Work for the Contractor will be:

(a) After notification of the AID/W, DS/HEA project manager by local mission personnel requesting an evaluation of local manufacturing capability to manufacture AID handpumps, the DS/HEA project manager will contact the Contractor, describing the origin and nature of the request. The Contractor must have the appropriate key individual traveling to the LDC site of the request within 2 weeks of notification by the AID/W, DS/HEA Project Manager to the Contractor or have mutually arranged for a later date of survey at the request of the AID mission with the knowledge of the Project Manager. The Contractor will make all final arrangements for the survey/evaluation directly with the LDC mission to include travel dates, contacts, arrangements for accommodations, etc. It is anticipated that each survey will take less than two weeks to perform plus travel time. A draft report will be left with the mission representative before the Contractor returns. A final report as described in section 22 of this PIO/T will be required with copies distributed as described within 20 days of returning from the local mission, local handpump manufacture feasibility study.

(b) The Contractor will be referred all requests for technical information on the setting up of local manufacture of the AID handpump. The Contractor will manage the servicing of these letter requests, providing the requestor with copies of up-to-date design drawings (on 8 x 10½ white bond paper) or copies of latest evaluation reports on the AID handpump utilization-evaluation project as appropriate. No more than 2 copies of the design drawings or latest evaluation report will be sent to a specific requestor without the oral permission of DS/HEA Project Manager.

(c) The Contractor will have to arrange for all travel, budget and administration of the evaluation/surveys performed with Contractor resources, paid for under this contract.

(d) When within the LDCs on an evaluation/survey, the mission will be expected to provide office space, transportation within the country, interpreter services and secretarial services as required in the development of the draft report before the Contractor leaves the country. All secretarial or production expenses concerning this contract generated in Atlanta will be charged to this contract.

AGENCY FOR INTERNATIONAL DEVELOPMENT
**PROJECT AUTHORIZATION AND REQUEST
 FOR ALLOTMENT OF FUNDS PART I**

1. TRANSACTION CODE

C

A - ADD
 C - CHANGE
 D - DELETE

PAF

2. DOCUMENT CODE
 5

3. COUNTRY/ENTITY

DS/HEA Inter-regional RDA 13

4. DOCUMENT REVISION NUMBER

5. PROJECT NUMBER (7 digits)

6. BUREAU/OFFICE

A. SYMBOL B. CODE
 DSB

7. PROJECT TITLE (Maximum 40 characters)

8. PROJECT APPROVAL DECISION

ACTION TAKEN 10

A - APPROVED
 O - DISAPPROVED
 DE - DEAUTHORIZED

9. EST. PERIOD OF IMPLEMENTATION

YRS. QTRS.

10. APPROVED BUDGET AID APPROPRIATED FUNDS (\$000)

A. APPROPRIATION	B. PRIMARY PURPOSE CODE	PRIMARY TECH. CODE		E. 1ST FY <u>76</u>		H. 2ND FY <u>77</u>		K. 3RD FY <u>78</u>	
		C. GRANT	D. LOAN	F. GRANT	G. LOAN	I. GRANT	J. LOAN	L. GRANT	M. LOAN
(1) HEA	512	541		126		-	-	64	
(2)									
(3)									
(4)									
TOTALS									

A. APPROPRIATION	N. 4TH FY <u>79</u>		Q. 5TH FY		LIFE OF PROJECT		11. PROJECT FUNDING AUTHORIZED (ENTER APPROPRIATE CODE(S)) 1 = LIFE OF PROJECT 2 = INCREMENTAL LIFE OF PROJECT	A. GRANT	B. LOAN
	O. GRANT	P. LOAN	R. GRANT	S. LOAN	T. GRANT	U. LOAN			
(1)	66				256			2	
(2)									
(3)									
(4)									
TOTALS								C. PROJECT FUNDING AUTHORIZED THRU FY <input type="text" value="79"/>	

12. INITIAL PROJECT FUNDING ALLOTMENT REQUESTED (\$000)

A. APPROPRIATION	B. ALLOTMENT REQUEST NO.	
	C. GRANT	D. LOAN
(1)		
(2)		
(3)		
(4)		
TOTALS		

13. FUNDS RESERVED FOR ALLOTMENT

TYPED NAME (Chief, SER/FM/FSD)
 SIGNATURE
 DATE

14. SOURCE/ORIGIN OF GOODS AND SERVICES 000 941 LOCAL OTHER

15. FOR AMENOMENTS, NATURE OF CHANGE PROPOSED

This ammendment adds \$66,000 to the \$190,000 previously authorized. The additional funds will provide for preliminary technical assistance to missions and LDC governments interested in exploring the potential for local manufacture of handpumps in conjunction with rural water supply programs. The rationale for and scope of technical assistance is defined in the PP ammdt #1.

FOR PFC/RIAS USE ONLY	16. AUTHORIZING OFFICE SYMBOL	17. ACTION DATE	18. ACTION REFERENCE (Optional)	ACTION REFERENCE DATE
		MM DD YY		MM DD YY

Project Authorization and Request for Allotment of Funds

Part II

Entity: Development Support Bureau
Project: Handpump Technical Assistance
Project Number: 931-0079

I hereby authorize funding not to exceed sixty six thousand dollars (\$66,000) of FY 1979 funding for this project.

I approve an increase in the total level of AID appropriated funding planned for the project of from not to exceed one hundred ninety thousand dollars (\$190,000), to a new total of not to exceed two hundred fifty six thousand dollars (\$256,000), including the funding authorized above, for the period FY 1976 through FY 1980.



Stephen Joseph
Deputy Assistant Administrator
Development Support Bureau

5/24/79
Date

Attachments:

A. PP facesheet

Clearances:

DS/HEA, C. Pease



ACTION MEMORANDUM FOR THE DEPUTY ASSISTANT ADMINISTRATOR
DEVELOPMENT SUPPORT BUREAU

MAY 23 1978

THRU: DS/PO, Mr. Robert Simpson

FROM: DS/HEA, C.A. Pease, M.D.

Problem: To continue the provision of experienced, expedient field service support and technical assistance to missions desiring services relating to the assessment and evaluation of the feasibility of the local manufacture of the AID/Battelle handpump in LDC's as part of rural water supply projects being planned by USAID's.

Discussion: A.I.D. developed a handpump over a 9 year period with Battelle Industries of Columbus, Ohio. As a result of this project, a handpump was designed and evaluated in the laboratory only. In order to determine field adaptation and utilization characteristics, a project entitled, "Utilization-Evaluation of the AID Handpump", AID/ta-C-1354 was initiated in September, 1976. The project was intended to establish that (1) local manufacture of a reasonable quality cast iron handpump was possible in a LDC using local resources, and (2) the initial cost of the pump and the operation and maintenance characteristics were cost-effective in comparison to other handpumps already being locally used. The project was also designed to take out any remaining "bugs" left in the design before large scale, multi-country manufacturing took place.

The project is on-track. The low cost, locally made handpumps were relatively easily produced and have held up well under field testing against local LDC populations. DS/ENG and DS/HEA Project Managers now believe that LDCs should have the knowledge of the availability of a rugged, low cost, low operation and maintenance handpump-the AID Handpump.

The availability of the AID handpump and its adaptability to local LDC manufacture was reported to the field in the Resources Report, Vol 1, No 1, in February 1978. As a result of this publication several hundred copies of the "Utilization-Evaluation of the A.I.D. Handpump" reports including drawings have been sent to interested LDC government officials, A.I.D. officials and numerous entrepreneurs in the LDC's. In March of 1978, the PP was amended to provide for expedient technical assistance to missions and LDC governments for preliminary assessment of local handpump manufacturing capability. (PP amendment #1, attached) Since 1978, the A.I.D.

Handpump has been locally manufactured in a highly successful fashion in Costa Rica, Nicaragua, Dominican Republic and Indonesia. Georgia Institute of technology personnel have provided preliminary technical assistance in Liberia, the Philippines, Bolivia, Togo and Benin. The Philippine mission currently has a request in to the Asia Bureau for funding of a local manufacturing activity for the A.I.D. Handpump in the Philippines as a result of the Georgia Tech services.

There is a strong continuing level of interest in the types of services provided under this contract. Although the contract does not terminate until September 1980, the funds for technical assistance have been exhausted. The additional funding requested in the attached PAF ammendment are necessary to meet the demand for technical services for the remainder of the contract period.

The \$66,000 required is available within the Office of Health FY 1979 OYB and within the FY 1979 Congressional Presentation level.

Recommendation: That you sign the attached Project Authorization and Request for Allotment of Funds document.

Attachments: a/s

AGENCY FOR INTERNATIONAL DEVELOPMENT PROJECT PAPER FACESHEET	1. TRANSACTION CODE <input checked="" type="checkbox"/> C A ADD <input type="checkbox"/> C CHANGE <input type="checkbox"/> D DELETE	PP 2. DOCUMENT CODE 3
	4. DOCUMENT REVISION NUMBER <input type="text" value="2"/>	

1. COUNTRY ENTITY Inter-regional RDA 13 DS/HEA	7. PROJECT TITLE (Maximum 40 characters) <input type="text" value="Utilization-Evaluation of AID Handpump"/>
---------------------------------------------------	-----------------------------------------------------------------------------------------------------------------

5. PROJECT NUMBER (7 digits) <input type="text" value="931-0079"/>	6. BUREAU/OFFICE A. SYMBOL B. CODE DSB <input type="text" value="36"/>
-----------------------------------------------------------------------	---------------------------------------------------------------------------------

8. ESTIMATED FY OF PROJECT COMPLETION FY <input type="text" value="8"/> <input type="text" value="0"/>	9. ESTIMATED DATE OF OBLIGATION A. INITIAL FY <input type="text" value="716"/> B. QUARTER <input type="text" value="3"/> C. FINAL FY <input type="text" value="719"/> (Enter 1, 2, 3, or 4)
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A. FUNDING SOURCE	FIRST FY <u>76</u>			LIFE OF PROJECT		
	B. FY	C. L/C	D. TOTAL	E. FY	F. L/C	G. TOTAL
AID APPROPRIATED TOTAL	126		126	256		256
GRANT	(126)	()	(126)	(256)	()	(256)
LOAN	()	()	()	()	()	()
OTHER						
U.S.						
HOST COUNTRY						
OTHER DONOR(S)						
TOTALS	126		126	256		256

A. APPROPRIATION	B. PRIMARY PURPOSE CODE	PRIMARY TECH. CODE		E. 1ST FY <u>76</u>		H. 2ND FY <u>77</u>		K. 3RD FY <u>78</u>	
		C. GRANT	D. LOAN	F. GRANT	G. LOAN	I. GRANT	J. LOAN	L. GRANT	M. LOAN
1 HEA	512	541		126	-	-	-	64	
2									
3									
4									
TOTALS									

A. APPROPRIATION	N. 4TH FY <u>79</u>		O. 5TH FY		LIFE OF PROJECT		12. IN-DEPTH EVALUATION SCHEDULE
	P. GRANT	Q. LOAN	R. GRANT	S. LOAN	T. GRANT	U. LOAN	
HEA	66				256		<input type="text" value="0"/> <input type="text" value="9"/> <input type="text" value="8"/> <input type="text" value="0"/>
2							
3							
4							
TOTALS	66				256		

13. DATA CHANGE INDICATOR. WERE CHANGES MADE IN THE PID FACESHEET DATA BLOCKS 12, 13, 14, OR 15 OR IN PRP FACESHEET DATA, BLOCK 12? IF YES, ATTACH CHANGED PID FACESHEET.

14. ORIGINATING OFFICE CLEARANCE <input checked="" type="checkbox"/> 1 NO <input type="checkbox"/> 2 YES	15. DATE DOCUMENT RECEIVED IN AID/W, OR FOR AID/W DOCUMENTS, DATE OF DISTRIBUTION <input type="text" value="0"/> <input type="text" value="9"/> <input type="text" value="8"/> <input type="text" value="0"/>
SIGNATURE Lee M. Howard, M.D.	DATE SIGNED <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>
TITLE Director, Office of Health	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>