						1. TRANSACTIO	011 2002						
	AGENCY	FOR INTERNA	TIONAL DEVE	LOPMENT]				!				
					i		A 400	NGE	1	PP			
	P	ROJECT PAP	ER FACESH	IEET	i	<u></u>	שב כ 🚅	ETE	-	Z. SOCUMENT			
						PD	-AAC-S	520 . A I		CODE			
), cou	HTRY ENT	174				4. DOCUMENT	7574000	3/-AI		3			
Int	er-regi	ional RDA-1	13 DSB/H	IFΔ	;	- OGCOMENT	TEVISION NUI	*8E4					
5. PRQ.	JECT YUMI	BER (7 digita)		BUREAU, OF		1 200.000 0				gp.			
-	ו נפטו ענ	79.16	A. 57		COOL	7. PROJECT TI				7			
		_	DSB/	'HEA ſ	-36- 7	Utiliza	tion-Eval	uation o	of AID H	andpump]			
3. ESTI	MATED FY	OF PROJECT C	COMPLETION			9. ESTIMATED			. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	anabamp			
									_				
			80				TIAL EV 17	<u> </u>	UARTER [4			
			IO. ESTIM	ATED COST		EQUIVALENT		,		• 1			
				FIRST		EGUIVALENT	\$1 - 1						
	FUNDING	SOURCE	8. FX		_ <u></u>	7 70 7	1	LIFEOF	TOBLOPS	,			
AID AP	PROPRIAT	ESTOTAL	126		-	126	174		٠ د	G. TOTAL			
GR 4	N TI		126	, (300	1 (174			174			
1.04	(N)		1	: 1 ;	: 1 :			<u> </u>		174 1			
OTHER	1.						(1 1		; ; ; ;			
U.S.	2.												
HOST C	DUNTRY			<u> </u>						<u> </u>			
OTHER	GONOR(S)						· · · · · · · · · · · · · · · · · · ·		<u> </u>				
		TOTALS	126			126	1 174			174			
			11. 5408	903ED 8UDG	ET APPR	PRIATED FUN	05 3000)		i_	174			
	PPRO-	S. PRIMARY	1	ECH. CODE	1	s 76	Ţ	Fy 77		70			
	TION	PURPOSE		T	<u> </u>		H. 2ND	FY _/_	K. 3F	78 FY <u>78</u>			
		2005	C. GRANT	3. L3 AM	F.GRAN	47 3. LOAN	: GRANT	J. LOAN	GRANT	W. LOAN			
(1) 0	H	512	541		126	-	1 -	_	1 48	-			
121			<u>i</u>			1			i	 			
31					1		į						
141		<u> </u>	<u> </u>		1		1			 			
<u> </u>				TOTALS	126	-	-	•	48				
			N. 4TH	FY <u>79</u>	j q. s	TH FY 80	LIFEOF	PROJECT	12. IN-OE	PTH EVAL.			
	A. APPROF	PRIATION	D. SRANT	I _	Ī				i uxiic	N SCHEDULE:			
(I) pH		1	P COAN	R. SRAN	SDAN	T. GRANT	U. LOAM						
(1) pH		 -	-	<u> </u>	-	174		!					
(3)				<u> </u>	 		<u> </u>		"	M YY			
(4)		·		l	 		!		0	9 8 0			
		TOTALS	-	-	-		174						
13. DAT	A CHANGE	INDICATOR. H ATA, BLOCK IZ	ERE CHANGE	S MADE IN T	46 210 F.		A BLOCKS I	2 11 14 00	15.00 5				
	E376E1 U	717, SCOCK 12	7 1F YES. AT	TACH CHANG	160 PIO F	ACESHEET.		-1	13 OR 18 2	77			
		_		1 1 1	10								
,				'' لنت	. Y E S								
415		<u> </u>	PRIOWATING	OFFICE CLE	ARANCE			15. DATE D	OCUMENT	RECEIVED			
Lee	M-Howa	ra M.D.								AID/W OOCU-			
FIFLE						DATE SIGN	EC	A Property of the Section of the Sec					
		iffice of H	leal th					ĺ					
Deve	l opme,st	Sudport 8	ureau			013	217 718	1	3211	112			
A10 1330	1-4 (3-76)					1 1 - 1 - 1 - 1 - 1 - 1		- 	71211	(IC)			

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 $8 \times 10 \%$ 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.

FOR ALLOTMENT OF FUNDS PART C. CHANGE 2. DOCUMENT CO. 1. COUNTRY (PINTY) C. SUMPRAL PROPERTY 2. DOCUMENT REVISION NUMBER 3 2. PROJECT NUMBER (7 digits) C. SUMPRAL OFFICE C. COOL 3. PROJECT NUMBER (7 digits) C. SUMPRAL OFFICE C. COOL 3. PROJECT NUMBER (7 digits) C. SUMPRAL OFFICE C. COOL 4. APPROVAL D. C. STANDOVED C. STANDO	PROJEC	T AUTHO	RIZATI	ON AND	ELOPMENT	57	' '	MANS/			E			PAF	:	
SOURTEXTENSION NUMBER (7 digits) S. PROJECT INTURER (7 digits	PROJECT AUTHORIZATION AND REQUEST FOR ALLOTMENT OF FUNDS PART I															
DS/HEA Inter-regional RDA 13 S. PROJECT NUMBER (7 digits) G. SURRAU/OFFICE G. STAPPOOL S. COOL DSB G. TOOL G. TOOL G. TOOL A. APPROVED DSB G. TOOL A. APPROVED SUDGET AID APPROPRIATED FUNDS (5000) A. APPROVED SUDGET AID APPROPRIATED (5000) A. APPROVED SUDGET AID APPROPRIATED (5000) A. APPROVED SUDGET FUNDING ALLOTMENT REQUESTED (5000) B. ALLOTMENT REQUEST NO. G. GRANT D. LOAN TYPEO NAME (Chief, SER/FM/FSD) TOTALS B. ALLOTMENT REQUEST NO. G. GRANT D. LOAN TYPEO NAME (Chief, SER/FM/FSD) TOTALS SIGNATURE DOATE TOTALS SIGNATURE DOATE TOTALS D. SUNCEC/ORIGIN OF GOODS AND SERVICES DOD GOOD G. GRANT D. LOAN TYPEO NAME (Chief, SER/FM/FSD) TOTALS SIGNATURE D. SOURCE/ORIGIN OF GOODS AND SERVICES DOD G. GRANT D. LOAN TYPEO NAME (Chief, SER/FM/FSD) TOTALS SIGNATURE TOTALS D. SOURCE/ORIGIN OF GOODS AND SERVICES DOD G. GRANT D. LOAN TYPEO NAME (Chief, SER/FM/FSD) TOTALS SIGNATURE TOTALS TOTALS D. SOURCE/ORIGIN OF GOODS AND SERVICES DOD G. GRANT D. LOAN TYPEO NAME (Chief, SER/FM/FSD) TOTALS TOTALS TOTALS TOTALS TOTALS D. SOURCE/ORIGIN OF GOODS AND SERVICES DOD G. GRANT D. LOAN TYPEO NAME (Chief, SER/FM/FSD) TOTALS TOTA						·	+				_					
S. PROJECT NUMBER /7 digits) S. PROJECT 931-0079 S. PROJECT APPROVED S. SST. PERIOD OF IMPLEMENTATION S. SON			al RD	A 13			1 4. 6	OCUMI	ENTR	EVISIO	N NUN	MER				
931-0079 DSB	ROJECT NUM	BER (7 digit	\$)		UREAUVAE	FICE	17. 6	ROIFC	7 717	1 5 /14-						
APPROVAL OCCISION APPROVAL OCCISION APPROVAL OCCISION APPROVED O - OISAPPROVED O - OISAPPRO	_	_					┥¨~	_	• • • • • •	C C IME	xımum	JU Cheracte	(5)			
APPROVAL DECISION A APPROVED DE DISAPPROVED DISAPPROJED DISAPPROVED		79		DSB		-36- 7		Itili	izat:	lon/E	valı	uation A	ID Har	nd num	, -	
OECISION OECISI			AC.	TION TAR	EN	70 =								ra hami	-	
O - OSAPPROVED SUDGET AID APPROPRIATED FUNDS (5000) 10. APPROVED SUDGET AID APPROPRIATED FUNDS (5000) A. APPRO-PRIATION PRIMARY TECH. CODE E. V. FY 7G. H. 2NO FY 7T K. 3RO FY 7T FUNDS (5000) 11. HEA 512 541 126 64 12. TOTALS A. APPRO-PRIATION O. GRANT D. LOAN F. GRANT G. LOAN I. GRANT J. LOAN L. GRANT M. L. COME F. CODE G. C. GRANT D. LOAN F. GRANT G. LOAN I. GRANT J. LOAN L. GRANT M. L. COME F. C. GRANT J. LOAN L. GRANT M. L. COME G. C. GRANT M. C. C. GRANT M. L. COME G. C. GRANT M. C. C. G	_				98 0 ven	-	-									
A. APPRO-PRIATION PUMPOSE CODE C GRANT O. LOAN F GRANT G LOAN I GRANT J. LOAN L. GRANT M. L. 11 HEA 512 541 126 64 12 TOTALS A. APPRO-PRIATION D. GRANT P. LOAN R. GRANT S. LOAN T GRANT J. LOAN L. GRANT M. L. 10 TOTALS A. APPRO-PRIATION D. GRANT P. LOAN R. GRANT S. LOAN T GRANT U. LOAN L. GRANT G. LOAN TOTALS 11 TOTALS A. APPRO-PRIATION D. GRANT P. LOAN R. GRANT S. LOAN T GRANT U. LOAN L. GRANT CODES TO TOTALS 12 TOTALS 13 TOTALS 14 TOTALS A. APPRO-PRIATION D. GRANT P. LOAN R. GRANT S. LOAN T GRANT U. LOAN L. GRANT CODES TO TOTALS 15 TOTALS 16 TOTALS 17 TOTALS 18 PROJECT FUNDING ALLOTMENT REQUESTED (5000) 19 PROJECT FUNDING ALLOTMENT REQUESTED (5000) 10 SIGNATURE 10 SIGNATURE 11 TOTALS 12 SOURCE/ORIGIN OF GOODS AND SERVICES 13 SOURCE/ORIGIN OF GOODS AND SERVICES 14 SOURCE/ORIGIN OF GOODS AND SERVICES 15 SOURCE/ORIGIN OF GOODS AND SERVICES 15 SOURCE/ORIGIN OF GOODS AND SERVICES 15 SOURCE/ORIGIN OF GOODS AND SERVICES 16 SOURCE/ORIGIN OF GOODS AND SERVICES 17 SOURCE/ORIGIN OF GOODS AND SERVICES 18 SOURCE/ORIGIN OF GOODS AND SERVICES 19 SOURCE/ORIGIN OF GOODS AND SERVICES 19 SOURCE/ORIGIN OF GOODS AND SERVICES 10 OF TOTALS 10 SIGNATURE 11 LOCAL OTHER 12 TOTALS 13 FUNDS RESERVED FOR ALLOTMENT 14 LOCAL OTHER 15 SOURCE/ORIGIN OF GOODS AND SERVICES 15 SOURCE/ORIGIN OF GOODS AND SERVICES 16 SOURCE/ORIGIN OF GOODS AND SERVICES 17 TOTALS 18 TOTALS 19 PROJECT FUNDING OF COADS AND SERVICES 19 OF TOTALS 19 PROJECT FUNDING OF COADS AND SERVICES 10 OF TOTALS 10 PROJECT FUNDING OF COADS AND SERVICES 10 OF TOTALS 11 PROJECT FUNDING OF COADS AND SERVICES 12 PROJECT FUNDING OF COADS AND SERVICES 13 PROJECT FUNDING OF COADS AND SERVICES 19 OF TOTALS 10 PROJECT FUNDING OF COADS AND SERVICES 10 OF TOTALS 11 PROJECT FUNDING OF TOTALS AND THE FORM TOTALS AND THE F	ECISION			0 - 015	APPROVE				Y 1	. Lo	4	971				
A. APPRO-PRIATION PRIMARY TECH. COOE C. GRANT D. LOAN F. GRANT G. LOAN F. LO				IO. APPR	OVED BUD	GET AID	APPR	OPRIA	TEO E	IINOS /	50001					
TOTALS A. APPRO-PRIATION O. GRANT P. LOAN F. GRANT G. LOAN I GRANT J. LOAN L. GRANT W. L. TOTALS A. APPRO-PRIATION O. GRANT P. LOAN R. GRANT J. LOAN T. GRANT U. LOAN I GRANT T. TOTALS A. APPRO-PRIATION O. GRANT P. LOAN R. GRANT J. LOAN T. GRANT U. LOAN T. TOTALS A. APPRO-PRIATION O. GRANT P. LOAN R. GRANT J. LOAN T. GRANT U. LOAN T. TOTALS A. APPROPRIATION O. GRANT P. LOAN R. GRANT J. LOAN T. GRANT U. LOAN T. TOTALS A. APPROPRIATION O. GRANT P. LOAN R. GRANT J. LOAN T. GRANT U. LOAN T. TOTALS A. APPROPRIATION O. GRANT O. LOAN TYPED NAME (Chief, SER/FM/FSD) SIGNATURE OATE TOTALS SOURCE/ORIGIN OF GOODS AND SERVICES OOD JAI LOCAL OTHER TOTALS SOURCE/ORIGIN OF GOODS AND SERVICES OOD JAI LOCAL OTHER TOTALS APPROPRIATION OATE TOTALS T			RY P									FY <u>77</u>	к.	3RD FY	78	
TOTALS A. APPRO-PRIATION C. GRANT		CODE	c	GRANT O. LOAN		F. GF	THAF	T G LOAN		I GRANT J. LOAN				LIGAN		
TOTALS A. APPRO. PRIATION O. GRANT O. LOAN TOTALS O. GRANT O. LOAN TYPED NAME (Chief, SER/FM/FSD) OATE TOTALS DOOD TOTALS DOOD OATE TOTALS DOOD TOTALS	HEA	512		541			126						+			
A. APPRO. PRIATION O. GRANT D. LOAN R. GRANT S. LOAN T. GRANT U. LOAN TOTALS 11 66 256 256 25 INCREMENTAL. 22 21 256 25 INCREMENTAL. 23 256 256 25 INCREMENTAL. 24 256 256 25 INCREMENTAL. 25 256 25 INCREMENTAL. 25 256 25 INCREMENTAL. 26 27 PROJECT FUNCING ALLOTMENT REQUESTED (5000) B. ALLOTMENT REQUEST NO. C. GRANT O. LOAN TYPED NAME (Chief, SER/FM/FSD) C. 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 an LDC governments interested in exploring the potential for local manufacture of handpumps in conjunction with rural water supply programs. The repriorals for													1 04			
TOTALS A. APPRO. PRIATION O. GRANT P. LOAN R. GRANT S. LOAN T GRANT U. LOAN TODECT TODE(S) 1) 66 256 256 21 INCREMENTAL. 2) 2 INCREMENTAL. TOTALS Z. INITIAL PROJECT FUNDING ALLOTMENT REQUESTED (S000) B. ALLOTMENT REQUEST NO. C. GRANT O. LOAN TYPED NAME (Chief. SER/FM/FSD) TOTALS SIGNATURE OATE TOTALS J. SOURCE/ORIGIN OF GOODS AND SERVICES OOD 341 LOCAL OTHER TOTALS J. 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 an LDC governments interested in exploring the potential for local manufacture of handpumps in conjunction with rural water supply programs. The rationale for													 			
A. APPRO. PRIATION O. GRANT O. GRANT D. LOAN F. LOAN F. LOAN F. GRANT O. LOAN TOTALS I. FUNDS RESERVED FOR ALLOTMENT TYPED NAME (Chief, SER/FM/FSD) OATE OATE TOTALS OATE TOTALS OATE TOTALS OATE OATE TOTALS OATE TOTALS OATE OATE TOTALS TOTALS OATE TOTALS TOTALS OATE TOTALS TOTALS TOTALS OATE TOTALS TOTALS TOTALS OATE TOTALS																
PRIATION O. GRANT D. LOAN R. GRANT S. LOAN T GRANT U. LOAN 12 LINE OF PROJECT 256 256 256 256 256 256 256 25			70		TOTALS											
PHIATION O. GRANT D. LOAN R. GRANT S. LOAN T GRANT U. LOAN TODE(S) 1 TLIFE OF PROJECT 2 HINDRED PROJECT 2 HINDRED TOTALS C. FY PROJECT FUNDING AUTHORIZED THRU TOTALS B. ALLOTMENT REQUESTED (5000) B. ALLOTMENT REQUEST NO. C. GRANT C. GRANT O. LOAN TYPED NAME (Chief, SER/FM/FSD) SIGNATURE OATE TOTALS SOURCE/ORIGIN OF GOODS AND SERVICES OOD This ammendment adds \$66,000 to the \$190,000 previously authorized. The additional funds will provide for preliminary technical assistance to missions an LDC governments interested in exploring the potential for local manufacture of handpumps in conjunction with rural water supply programs. The rationals for		N. 4TH	FY /9	Q. 5TH			LIFE OF PROJECT			11 /	TOJECT PI	NOIN G	GRANT	LOAN		
10) 66 256 25 25 INCREMENTAL 2 20) C. FY TOTALS 2. INITIAL PROJECT FUNDING ALLOTMENT REQUESTED (\$000) 13. FUNDS RESERVED FOR ALLOTMENT C. GRANT 0. LOAN TYPED NAME (Chief, SER/FM/FSD) 15. SIGNATURE 16. SOURCE/ORIGIN OF GOODS AND SERVICES 000 941 LOCAL 0THER 1. 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 of handpumps in conjunction with rural water supply programs. The rationals for	PRIATION	O. GRANT	P. LOA	N R. GRANT A. LOAN			T GRANT			CODE(SI)						
TOTALS B. ALLOTMENT REQUEST NO. 13. FUNDS RESERVED FOR ALLOTMENT C. GRANT O. LOAN TYPED NAME (Chief, SER/FM/FSD) SIGNATURE TOTALS OATE TOTALS OATE 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 an LDC governments interested in exploring the potential for local manufacture of handpumps in conjunction with rural water supply programs. The restorate for		66					<u> </u>		 3.	COAN	1				-	
TOTALS 2. INITIAL PROJECT FUNDING ALLOTMENT REQUESTED (\$000) 3. ALLOTMENT REQUEST NO							 23	-	 -		4 = 1	IFE OF PR	AL. Dject	2	l	
TOTALS 2. INITIAL PROJECT FUNDING ALLOTMENT REQUESTED (5000) 3. APPROPRIATION C. GRANT C. GRANT D. LOAN TYPED NAME (Chief, SER/FM/FSD) 3. SIGNATURE 3. SOURCE/ORIGIN OF GOODS AND SERVICES 3. 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 an LDC governments interested in exploring the potential for local manufacture of handpumps in conjunction with rural water supply programs. The rationals for							 		+					L	<u> </u>	
TOTALS 2. INITIAL PROJECT FUNDING ALLOTMENT REQUESTED (\$000) 3. FUNDS RESERVED FOR ALLOTMENT C. GRANT C. GRANT C. GRANT C. GRANT O. LOAN TYPED NAME (Chief, SER/FM/FSD) SIGNATURE OATE TOTALS DATE 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 an LDC governments interested in exploring the potential for local manufacture of handpumps in conjunction with rural water supply programs. The rationals for											PRO.	JECT FUNG		, p.,	۲ .	
B. ALLOTMENT REQUEST NO	TOTALS							·····						7	9	
C. SHANT O. LOAN TYPED NAME (Chief. SER/FM/FSD) SIGNATURE OATE TOTALS SOURCE/ORIGIN OF GOODS AND SERVICES FOR AMENDMENTS, 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 an LDC governments interested in exploring the potential for local manufacture of handpumps in conjunction with rural water supply programs. The rationals for	ITIAL PROJE	CT FUNDIN	G ALLOT	MENT R	EQUESTED	(\$000)			*******							
TOTALS SIGNATURE O. LOAN TYPED NAME (Chief, SER/FM/FSD) SIGNATURE OATE TOTALS OATE TOTALS OOD 941 LOCAL OTHER THE additional funds will provide for preliminary technical assistance to missions an LDC governments interested in exploring the potential for local manufacture of handpumps in conjunction with rural water supply programs. The rationals for		B. ALL	OTMENT	REQUES	T NO				13. F	UNDS	RESER	RVED FOR A	LLOTME	NT		
SIGNATURE SIGNATURE OATE TOTALS OATE TOTALS OATE TOTALS OATE TOTALS OATE TOTALS OTHER LOCAL OTHER THE additional funds will provide for preliminary technical assistance to missions an LDC governments interested in exploring the potential for local manufacture of handpumps in conjunction with rural water supply programs. The rationals for	PROPRIATIO	i i	SHANT													
SIGNATURE SIGNATURE OATE TOTALS OATE TOTALS OATE TOTALS OATE OTHER DESCRIPTION OF GOODS AND SERVICES OOO 941 LOCAL OTHER OTHER This ammendment adds \$66,000 to the \$190,000 previously authorized. The additional funds will provide for preliminary technical assistance to missions an LDC governments interested in exploring the potential for local manufacture of handpumps in conjunction with rural water supply programs. The rationals for					O. LOA	۷ 	TYPS	ED NAM	AE (Chi	ef. SEF	VFM/	FSD)				
TOTALS SOURCE/ORIGIN OF GOODS AND SERVICES OOO 941 LOCAL OTHER 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 an LDC governments interested in exploring the potential for local manufacture of handpumps in conjunction with rural water supply programs. The rationals for							61611									
TOTALS SOURCE/ORIGIN OF GOODS AND SERVICES OUR DOOL 941 LOCAL OTHER 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 an LDC governments interested in exploring the potential for local manufacture of handpumps in conjunction with rural water supply programs. The rationals for							SIGN	TURE								
TOTALS SOURCE/ORIGIN OF GOODS AND SERVICES OUR DATA DESCRIPTION OF GOODS AND SERVICES 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 an LDC governments interested in exploring the potential for local manufacture of handpumps in conjunction with rural water supply programs. The rationals for			··				DATE									
This ammendment adds \$66,000 to the \$190,000 previously authorized. The additional funds will provide for preliminary technical assistance to missions an LDC governments interested in exploring the potential for local manufacture of handpumps in conjunction with rural water supply programs. The rationals for	TOTAL	s														
This ammendment adds \$66,000 to the \$190,000 previously authorized. The additional funds will provide for preliminary technical assistance to missions an LDC governments interested in exploring the potential for local manufacture of handpumps in conjunction with rural water supply programs. The rationals for	URCE/ORIGI	N OF GOODS	AND SE	RVICES			000		941		LOC	AL	OTHER	· · · · · · · · · · · · · · · · · · ·		
This ammendment adds \$66,000 to the \$190,000 previously authorized. The additional funds will provide for preliminary technical assistance to missions an LDC governments interested in exploring the potential for local manufacture of handpumps in conjunction with rural water supply programs. The rationals for	R AMENOME	NTS, NATUR	E OF CH	ANGE PO	OPOSED				· · · · · · · · · · · · · · · · · · ·							
LDC governments interested in exploring the potential for local manufacture of handpumps in conjunction with rural water supply programs. The rationals for	his ammer	ndment a	dds \$6	66,000	to the	\$190.	000	prev	ious	ly a	utho	rized.	The			
handpumps in conjunction with rural water supply programs. The rationals for	dditional	Liunas	MITT b	provide	e for or	relimi	nary	tec	hnic	al a	cato	tanca t	o mico	ione	and	
nampumps in conjunction with rural water supply programs. The rationals for	ne Roveri	ments 1	nceres	itea ii	u exp⊥oı	rino t	he r	noten	rial	for	100		e			
ADD SCORE Of technical addistance to 1 Ct. 1 the second	arminamh2	TH COUL	unctic	ום בש מכ	n rural	water	suc	plv	DEOP	rams	_ T	'ha rati	onale	for		
and scope of technical assistance is defined in the PP ammdt #1.	nd scope	or tech	nical	assist	tance is	defi	ned	in t	he P	P am	md t	#1.				

	16. AUTHORIZING	17. ACTION DATE	18. ACTION REFERENCE	107
FOR PPC/PIAS	OFFICE SYMBOL	MM 50 YY	(Optional)	ACTION REFERENCE DATE
USE ONLY				MM DD YY
		<u> </u>		

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 Adm

Deputy Assistant Administrator Development Support Bureau

Attachments:
A. PP facesheet

Clearances:

DS/HEA, C.Pease

ACTION MEMORANDUM FOR THE DEPUTY ASSISTANT ADMINISTRATOR DEVELOPMENT SUPPORT BUREAU

HAY 20

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 <u>Resources Report</u>, 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 ammended to provide for expedient technical assistance to missions and LDC governments for preliminary assessment of local handpump marrifacturing capability. (PP ammendment #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 rands 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

· ————————————————————————————————————					. TRANSACTIO	ON CODE		 		
AGENC			A AOO			PP				
Pt	ROJECT PAPE	ER FACESHE	EET		C	D DEL	_	}	2. DOCUMEN	
									200E	
I COUNTRY EN				4	DOCUMENT	EVISION NU	MBER			
Inter-region	nal RDA 13 I							2		
	_	6. B	UREAU/OF	FICE 7	PROJECT TI	TLE /Meximus	40 characte	rs)		
931-00		DSB		236]	Utilizat	tion-Eval	uation o	f AID H	- - andpump	
1. ESTIMATED FY	OF PHOJECT CO	OMPLETION		10 9	ESTIMATED					
		ev 8 0				TIAL FY 7		UARTER (of 1, 2, 3, o	3	
		10. ESTIMA	TED COSTS	(\$000 OR 1	EQUIVALENT	51 -				
A. FUNCING	SOURCE		FIRST	FY 7	6		LIFE OF	PROJECT		
NO APPROPRIAT	ED TOTAL	5. FX	- C.	- · c	J. TOTAL	E. FX	g.	. L/C	G. TOTAL	
SPANTI		126	+		126 126	256) (256	
LOANI		1 1	- 	1 1	120 1	1 230) (1 256	
-HER 1.						 ` 	- 			
U.S. 2.										
OST COUNTRY			 							
Z TER JUNUALSI	TOTALS	126			106	0.74				
	75.75		SED BUCG	ET APPROI	126	256			256	
	B. PRIMARY	PRIMARY TE			- FY 76		FY 77 K. 3RD FY 78"			
A. APPRO- PRIATION	PURPOSE CODE	C. GRANT D. LOAN		F SRAN		I GRINT J. LOAN		L. GRAN		
HEA	512	541		126			_	64		
<u>. </u>		!		<u> </u>						
3); \$	<u> </u>			<u> </u>	-	<u> </u>				
	<u> </u>	1	TOTALS	!	 	 		<u> </u>		
		N. 4TH		2 57	H FY			12. IN- 3E	PTH EVAL.	
A. APPRO	PRIATION			i		LIFE OF PROJECT		UATI	ON SCHEDUL	
HEA		0 SRANT	5 -07W	R SRAN	5. LOAN	T. SRANT	U. LOAN			
:		. 60		 		256		-		
21					 	<u> </u>		→ ,	9 8 10	
4;						i		12	3 10 10 1	
	TOTALS	66				256		1		
3. DATA CHANGE FACESHEET D	EINDICATOR, WE ATA, BLOCK 121	ERE CHANGES IF YES, ATT	MADE IN TH	HE PID FAC SED PIO FA	CESHEET DAT CESHEET.	A BLOCKS I	2, 13, 14, OR	IS OR IN	946	
			1 L I	: NO : YES						
	14.0	RIGINATING 3	FIFE	AHANCE	·		15. DATE	OCUMENT	RECEIVED	
Lee M. Ho	ward, M.D.		(6	T	5		THE ATOM	4 (10 FAC	AID/ # OOC!	
TYLE		1			DA E SIGN	1EC				
Director,	Office of	Health \	\			20 14	\ \	M 20	· · ·	
. C 1330-4 -3-751				/-		<u> </u>		<u> </u>		