

AGENCY FOR INTERNATIONAL DEVELOPMENT
WASHINGTON, D. C. 20523
BIBLIOGRAPHIC INPUT SHEET

FOR AID USE ONLY
Batch 52

1. SUBJECT CLASSIFICATION	A. PRIMARY	TEMPORARY
	B. SECONDARY	

2. TITLE AND SUBTITLE
Field research and testing of a water hand pump for use in developing countries, progress report, Jan.-March 1972

3. AUTHOR(S)
Frink, D.W.; Fannon, R.D.

4. DOCUMENT DATE 1972	5. NUMBER OF PAGES 3p.	6. ARC NUMBER ARC
--------------------------	---------------------------	----------------------

7. REFERENCE ORGANIZATION NAME AND ADDRESS
Battelle

8. SUPPLEMENTARY NOTES (*Sponsoring Organization, Publishers, Availability*)

9. ABSTRACT
(SCIENCE AND TECHNOLOGY--Engineering--Hydraulics R & D)

10. CONTROL NUMBER PN-AAD-311	11. PRICE OF DOCUMENT
12. DESCRIPTORS	13. PROJECT NUMBER
	14. CONTRACT NUMBER CSD-3305 Res.
	15. TYPE OF DOCUMENT



Battelle

Columbus Laboratories
505 King Avenue
Columbus, Ohio 43201
Telephone (614) 299-3151
Telex 24-5454

March 23, 1972

Mr. A. Dale Swisher, P.E.
Environmental Health
Office of Health
Technical Assistance Bureau
Agency for International Development
Washington, D. C. 20523

Dear Mr. Swisher:

Third Quarterly Progress Report on Phase III
"Field Research and Testing of a
Water Hand Pump For Use in Developing Countries"
AID/csd-3305
January 1 through March 31, 1972

The third quarter of our program has become quite productive. Because of action taken by the Project Review Team developing countries have been chosen and work within the first country will begin in April.

Project Review

On February 24, 1972, a Review and Appraisal Board was formed to examine the progress of this program. A report of this meeting including discussions and recommendations dated March 9, 1972, has been prepared and distributed by the Project Monitor, A. Dale Swisher. This summary need not be repeated; however, we would like to note that it was recommended that the field program be started as soon as possible even if arrangements could not be made in three countries as called out in the contract and that FY '72 program funding be made available for follow-up visits if necessary.

We would like to express our appreciation to Mr. A. Dale Swisher, who planned the meeting, Mr. Alfred Davidson, Chairman, and the others who attended for making the review meeting a success.

Selection of Developing Countries

Sixteen inquiries were sent out to ten countries:

India
Philippines
Thailand

Iran
Guatemala
Brazil

Surinam
Mexico

Korea
Sweden.

With the exception of Thailand the responses to the inquiries were negative. It seems almost unbelievable that such little interest was shown although more favorable secondary reactions have been subsequently received.

Three Thai Government agencies (Accelerated Rural Development, Ministry of Health, and Department of Mineral Resources) have been reported to have an interest in the pump as well as the mission hydrogeologist, Mr. John Smith. It has also been reported that the AID Mission Director in Laos expressed an interest in the pump with perhaps the idea of buying pumps from Thailand. In light of this enthusiasm Thailand was chosen as the first of the Developing Countries in which to work.

On January 25, 1971, a letter was received from Mr. Erik Fraser of CARE in Nigeria requesting more information regarding the pump including possibilities of manufacturing the pump in Nigeria. Contact was then made with Mr. Ralph Montee, CARE, New York. CARE is engaged in a program requiring 300 pumps and there are two foundries in Lagos capable of producing the pump as well as a supply of materials. Because of the need and facilities available, Nigeria has been chosen as the second developing country for our field evaluation.

Immediate Program Plans

The first visit will be made during April and May this year; Thailand first and Nigeria second. A contract has been let for \$3700 for two sets of patterns, totaling 27 patterns and core boxes per set, to be shipped by air freight to the two chosen areas. Also, included with each shipment will be a demonstration pump and sufficient sample materials of some of the pump parts for test purposes.

The new supplier of Corfam has been contacted and it is hoped that sample Corfam cups can be acquired in time to take with us. Also, as soon as specifications for the Corfam cups can be determined they will replace the leather specifications in the pump description. Names and addresses of the closest suppliers to the two countries are also being obtained.

It is planned that the project engineer and machinist/technician will leave for Thailand within one week of the shipment of patterns and other materials. The arrival dates cannot be established at this time as they will be based on time required for completion of the patterns, crating for export, and shipment to Bangkok and Lagos. However, it is expected that the patterns will be completed the week of April 3.

During the time the patterns are being made, overseas travel is being planned, passports renewed, and immunizations brought up to date.

Patent Application

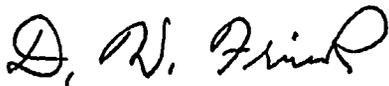
The last recommendation of the review committee was to proceed without delay to file a U.S. patent application. This effort has been started. Battelle patent attorneys are preparing the required data.

Future Work

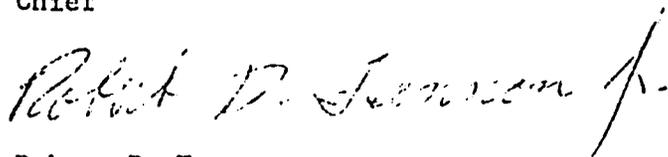
The work during the next quarter will be concentrated in starting the manufacture of pumps and the establishment of an evaluation program in the two areas selected. The patent application will also be followed up.

If there are any questions concerning this report, please call.

Sincerely,



D. W. Frink
Chief



Robert D. Fannon
Research Engineer
Equipment Development Division

(25 copies)

DWF/RDF:cw

cc: Mr. N. A. Caticchio
Contracting Officer
Office of Procurement
Contract Services Division
Agency For International Development
Washington, D. C. 20523