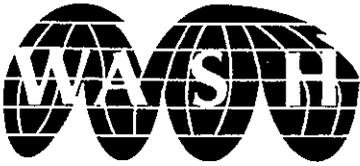


**WATER AND SANITATION
FOR HEALTH PROJECT**



**COORDINATION AND
INFORMATION CENTER**

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SUMMARY OF
WASH PROJECT
ACTIVITIES FOR
BUREAU OF ASIA

September 1, 1980 - May 26, 1984

The WASH Project is managed by Camp Dresser & McKee Incorporated. Principal Cooperating Institutions and subcontractors are: International Science and Technology Institute; Research Triangle Institute; University of North Carolina at Chapel Hill; Georgia Institute of Technology—Engineering Experiment Station.

Summary of WASH Project Activities for Bureau for Asia
September 1, 1980 - May 26, 1984

-SYNOPSIS-

Contents by Sections

Summary of AID Water Supply and
Sanitation Projects by Bureaus: 1976-1984

A.I.D. Project Data Listings

- Explanatory description
- Computer print-out of
Regional Bureau projects
with a water supply and/or
environmental sanitation
component: 1976-1984.

- Computer print-out of potable
water supply and sanitation
projects: 1980-1985.

Summary of WASH Project Activities
for Asia Bureau.

WASH Costs as of 5/26/84: Asia Bureau
by country.

WASH Publications List

Orders of Technical Direction (OTDs)
from the Office of Health to WASH

Summary of AID Water Supply and Sanitation Projects by Bureaus: 1976-1984

| Bureau | FY 76+T.Q. Actual (\$000's) | FY 77 Actual (\$000's) | FY 78 Actual (\$000's) | FY 79 Actual (\$000's) | FY 80 Actual (\$000's) | FY 81 Actual (\$000's) | FY 82 Actual (\$000's) | FY 83 OYB (\$000's) | FY 84 CP (\$000's) |
|--|-----------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|---------------------------|--------------------------|
| Africa | | | | | | | | | |
| DA | -- | 500 | 992 | 3,360 | 6,359 | 10,206 | 7,885 | 4,675 | 2,445 |
| SH | -- | -- | 1,000 | 4,168 | 2,914 | 2,809 | 4,022 | -- | -- |
| ES | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| FDA | 500 | -- | -- | -- | -- | 2,000 | 6,000 | 6,445 | -- |
| Asia | | | | | | | | | |
| DA | 20,000 | 6,800 | 3,684 | 3,500 | 16,104 | 10,150 | 3,033 | 5,200 | -- |
| ES | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Latin America | | | | | | | | | |
| DA | -- | 4,748 | 581 | 8,754 | 18,621 | 676 | 5,520 | 5,700 | 1,000 |
| ES | -- | -- | -- | -- | -- | -- | -- | 9,700 | -- |
| Near East | | | | | | | | | |
| DA | 3,627 | 11,738 | 5,752 | 4,450 | 3,363 | 5,650 | 3,800 | 3,079 | 1,077 |
| ES | 22,500 | 87,000 | 120,000 | 158,921 | 23,500 | 125,100 | 10,000 | 344,500 | 215,000 |
| FDA | -- | -- | -- | -- | -- | -- | -- | 2,800 | -- |
| Science & Technology | | | | | | | | | |
| DA | 241 | 253 | 340 | 962 | 4,426 | 3,706 | 2,450 | 2,400 | 2,300 |
| TOTAL Development Assistance (Includes Sahel) | 23,868 | 24,039 | 12,349 | 25,194 | 51,787 | 33,197 | 26,710 | 21,054 | 6,818 |
| TOTAL Economic Support (Includes FDA) | 23,000 | 87,000 | 120,000 | 158,921 | 23,500 | 127,100 | 16,000 | 363,445 | 215,000 |
| Sub-TOTAL (appropriated) | 46,868 | 111,039 | 132,349 | 184,115 | 75,287 | 160,297 | 42,710 | 384,499 | 221,818 |
| Housing WS&S Components | | | 45,000 | 55,000 | 70,500 | 42,000 | 46,000 | 46,000 | 60,000 |
| Grand Total WS&S | 46,868 | 111,039 | 177,349 | 239,115 | 145,787 | 202,297 | 88,710 | 430,499 | 281,818 |

A.I.D. PROJECT DATA LISTINGS

The following section has three parts:

1. An explanatory description of the A.I.D. Water Resources and Environmental Health Information Data Base developed by the WASH Project for the Office of Health using an Apple II Microcomputer. It includes definitions and comments on procedures used and data sources, a sample computer terminal display layout of the input format, and a Appendix A that identifies the alphabetical coding of project characteristics - functional subcategories, activity codes, scope, agents and service level.
2. A computer print-out of Regional Bureau projects identified as having a water supply and/or environmental sanitation component. It includes country project title, project number, beginning and ending fiscal years, appropriation source, functional subcategories included in the projects and fiscal year funding from 1976 through 1984. Funding is sub-totalled by year for each country.
3. A computer print-out similar to the above. It includes only potable water supply and sanitation projects. Funding data for these projects covers fiscal years 1973-1984.

AID WATER SUPPLY AND ENVIRONMENTAL HEALTH PROJECTS
INFORMATION DATA BASE: FY 1973 - Present

DEFINITION OF PROJECTS INCLUDED IN DATA BASE:

Those A.I.D. supported projects in which water, its development, use, management, and environmental sanitation activities appears as an element in any project as a development activity.

PROCEDURES USED TO IDENTIFY PROJECTS:

1. A.I.D. ST/DIU Design and Evaluation computer files were reviewed for initial identification of projects which included water as a key word in the description of the project.

2. A.I.D. Congressional Presentations were reviewed from FY 1978-1983 for project identification and funding data.

3. A.I.D. PPC Reports on Summaries of Obligations by Appropriation and Functional Subcategories for FY 1983 Congressional Presentation have been used as current sources of project funding data for FY 1978 through requested FY 1983.

4. Early historical Health Account funding files maintained in ST/Health provided additional references for project identification and funding data. Office of Financial Management provided obligation information on a limited number of projects funded between FY 1973 and FY1978.

5. Reports on Active and Completed projects prepared by A.I.D.'s Office of Financial Management (W-253 Reports) were also used for funding references.

PROCEDURES USED TO ENTER DATA INTO SYSTEM:

1. Initial project identification has been done by reviewing projects for each A.I.D. Regional Bureau and the Central Bureau for Science and Technology.

2. Data has been entered on an Apple II+ microcomputer. Use has been made of software programs such as VISICALC, VISIFILE, VISITREND/VISIPLLOT, CONDOR, and APPLE II BUSINESS GRAPHICS.

3. Data is stored on floppy disks. Files are maintained on the disks by Bureau. Project data include: Title, Project Number, Beginning and End Year, Life of Project Funding, Appropriation code (from which project funded), Agent(Implementor), Scope(National, Pilot, etc.), No. of Beneficiaries(where info available), Cost per Beneficiary(where available), Service level(taps,springs,etc.), Activity Codes and SUBCATS (See attached for description), Water Component Code to determine whether water is major project activity or only a component part of the project, and Fiscal Year funding data FY 1973 to present.

4. Printouts of the data can be made easily by selecting out desired information through search procedures of files stored in the data base.

5. The data base currently contains over 600 records.

DATA ANALYSIS:

1. Graphics software is being used to plot and chart a variety of presentations based on information contained in the data base. Separate files have been created of computed funding data by Activity codes, SUBCATS, Appropriation codes, Bureaus, and Fiscal Year.

2. A variety of graphic and statistical summaries are possible using the APPLE II and a compatible printer. Line, bar, area and pie charts can be produced as well as funding trend forecasting.

<< W A T E R >>

[REG].....: ___
[COUNTRY]....: _____
[TITLE].....: _____
[PROJ#].....: _____
[LOP\$].....: _____
[APPR].....: _____
[AGENT].....: _____
[BEG].....: ___
[END].....: ___

[FY73] _____ [FY74] _____ [FY75] _____ [FY76] _____
[FY77] _____ [FY78] _____ [FY79] _____ [FY80] _____
[FY81] _____ [FY82] _____ [FY83] _____ [FY84] _____

[SCOPE].....: _____
[#BENEF].....: _____
[COST/BENEF].: _____
[SVC.LEVEL]..: _____
[ACT.CODE]...: _____
[SUBCAT].....: _____

[WTRCOMP].....: _____
<< G L O B A L >>

[REG]: ___
[OFFICE]: _____
[TITLE]: _____
[PROJ#]: _____
[LOP\$]: _____
[APPR]: _____
[AGENT]: _____
[BEG]: ___
[END]: ___
[FY73]: _____ [FY74]: _____ [FY75]: _____ [FY76]: _____
[FY77]: _____ [FY78]: _____ [FY79]: _____ [FY80]: _____
[FY81]: _____ [FY82]: _____ [FY83]: _____ [FY84]: _____

[SCOPE]: _____
[SERVICE LEVEL]: _____
[ACT.CODE]: _____
[SUBCAT]: _____
[WTRCOMP]: _____

APPENDIX A
FUNCTIONAL SUBCATEGORIES:

| | | | |
|-----|-----------------------------|-----|-----------------------|
| WSS | WATER SUPPLY AND SANITATION | IRG | IRRIGATION |
| WRM | WATER RESOURCES MANAGEMENT | FSH | FISHERIES |
| PHC | PRIMARY HEALTH CARE | NUT | NUTRITION |
| HIG | HOUSING INVESTMENT GUAR. | ENG | ENERGY |
| WLS | WATER FOR STOCK PONDS | WRD | WATER RESOURCES DEV. |
| WSD | WATER SUPPLY DEVELOPMENT | WAT | WATER SUPPLY (POT.) |
| ST | SCIENCE AND TECHNOLOGY | | |
| GWD | GROUND WATER DEVELOPMENT | Evh | ENVIRONMENTAL HEALTH |
| TDC | TROPICAL DISEASE CONTROL | SST | SEW. OR SEWAGE TREAT. |

ACTIVITY CODES:

TT TECHNOLOGY TRANSFER/TECHNICAL ASSISTANCE
HR HUMAN RESOURCES DEVELOPMENT (TRAINING)
RD RESEARCH AND DEVELOPMENT
ID INFRASTRUCTURE DEVELOPMENT
CP COMMUNITY PARTICIPATION
PV PRIVATE SECTOR INVOLVEMENT
FE FEASIBILITY STUDIES
HE HEALTH EDUCATION

SCOPE:

| | |
|------------------|----------|
| NATIONAL | PILOT |
| PROVINCIAL | REGIONAL |
| MULTI-PROVINCIAL | URBAN |
| DISTRICT | RURAL |

AGENT:

UNC UNIVERSITY CONTRACT
PVO PRIVATE VOLUNTARY AGENCY
NGO NON-GOVERNMENT AGENCY
PSC PERSONAL SERVICES CONTRACT
PVC PRIVATE SECTOR CONTRACT
MLT MULTILATERAL AGENCY
HCC HOST COUNTRY CONTRACTOR
LDC HOST COUNTRY GOVERNMENT
PEC PEACE CORPS
PAS PASA (INTERAGENCY AGREEMENT)

SERVICE LEVEL:

| | | |
|------------------------------|-------|---------------|
| SPRING CAPTATION | WELLS | SEWERS |
| PIT LATRINES | DIKES | PONDS |
| COMMUNITY TAPS | DAMS | HAND PUMPS |
| INDIVIDUAL HOUSE CONNECTIONS | | PERCOLATION |
| METERED HOUSE CONNECTIONS | | STORAGE TANKS |

ASIA PROJECTS WITH A WATER SUPPLY AND OR SANITATION COMPONENT

DATE: 04/15/83

PAGE: 1

| COUNTRY | TITLE | PROJ# | APPR | BEG | END | AGENT | ACT.CODE | SUBCAT | LCP# | FY76 | FY77 | FY78 | FY79 | FY80 | FY81 | FY82 | FY83 | FY84 |
|-------------|--------------------------------|-----------|------|-----|-----|-------|-------------|-------------|--------|------|------|------|------|-------|-------|-------|------|------|
| Bangladesh | Food For Work I | G 3880017 | FN | 78 | 84 | PVD | TT,CP | IRG,WAT | 2373 | 0 | 0 | 419 | 500 | 570 | 0 | 0 | 0 | 0 |
| Bangladesh | Food For Work II | G 3880052 | FN | 81 | 85 | PVD | TT,CP | IRG,WAT | 2650 | 0 | 0 | 0 | 0 | 0 | 500 | 660 | 790 | 700 |
| Bangladesh | PVD Co-Financing I | G 3880010 | SD | 75 | 79 | PVD | TT,CP | WAT,EVH,IRG | 2247 | 314 | 534 | 248 | 880 | 0 | 0 | 0 | 0 | 0 |
| Bangladesh | PVD Co-Financing II | G 3880045 | FN | 80 | 84 | PVD | TT,CP | WAT,EVH,IRG | 2050 | 0 | 0 | 0 | 0 | 450 | 400 | 350 | 400 | 400 |
| Bangladesh | PVD Co-Financing II | G 3880045 | SD | 80 | 84 | PVD | TT,CP | WAT,EVH,IRG | 2600 | 0 | 0 | 0 | 0 | 500 | 400 | 50 | 50 | 0 |
| | | | | | | | | Subtotal | 11320 | 314 | 534 | 667 | 1380 | 1520 | 1300 | 1000 | 1150 | 1100 |
| Burma | Primary Health Care | G 4820002 | HE | 80 | 82 | LDC | TT,HR,CP | PHC,EVH,WAT | 5000 | 0 | 0 | 0 | 0 | 2000 | 3000 | 0 | 0 | 0 |
| Burma | Primary Health Care II | G 4820004 | HE | 83 | 86 | LDC | TT,HR,CP | PHC,EVH,WAT | 12500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3900 | 0 |
| | | | | | | | | Subtotal | 17500 | 0 | 0 | 0 | 0 | 2000 | 3000 | 0 | 3900 | 0 |
| India | Housing | L | HIG | 81 | 81 | LDC | TT,TD,PV | HIG,WAT,WSS | 6000 | 0 | 0 | 0 | 0 | 0 | 6000 | 0 | 0 | 0 |
| India | Integrated Rural Health & Pop. | G 3860468 | HE | 80 | 83 | PSC | TT,HE | WSS,EVH,PHC | 26200 | 0 | 0 | 0 | 0 | 9900 | 9400 | 0 | 6900 | 0 |
| | | | | | | | | Subtotal | 32200 | 0 | 0 | 0 | 0 | 9900 | 15400 | 0 | 6900 | 0 |
| Indonesia | Appropriate LowCost Technology | G 4970268 | SD | 78 | 79 | LDC | TT,TD,HR | WSS,WAT,EVH | 500 | 0 | 0 | 500 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indonesia | Assist. to Environ. Centers | G 4970314 | SD | 79 | 80 | | FE,HR,TF | EVI,WRM | 500 | 0 | 0 | 0 | 500 | 0 | 0 | 0 | 0 | 0 |
| Indonesia | Health,Training R & D | G 4970273 | HE | 78 | 81 | PSC | TT,FE,RO | PHC,EVH | 4500 | 0 | 0 | 600 | 1000 | 900 | 2000 | 0 | 0 | 0 |
| Indonesia | Project Development | L 4970224 | DL | 71 | 77 | LDC | FE,TF | WAT,WSS,HIG | 4165 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indonesia | Rural Sanitation Manpower I | L 4970247 | HE | 77 | 77 | PSC | TT,HR,TD | EVI | 6800 | 0 | 6800 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indonesia | TA/Consultancy 1 & 2 | L 4970249 | FN | 76 | 78 | PVC | FE,TD | WAT,IFG,WRO | 6000 | 6000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indonesia | VOLAG Co-Financing | G 4970225 | HE | 80 | 82 | PVD | CP,TT | WSS,EVH,WAT | 822 | 0 | 0 | 0 | 0 | 400 | 422 | 0 | 0 | 0 |
| | | | | | | | | Subtotal | 23287 | 6000 | 6800 | 1100 | 1500 | 1300 | 2422 | 0 | 0 | 0 |
| Korea | Housing Program | L | HIG | 78 | 78 | LDC | TD,TT,PV | HIG,WAT,WSS | 4000 | 0 | 0 | 4000 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | Subtotal | 4000 | 0 | 0 | 4000 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nepal | Integrat. Rural Health & FP | G 3670135 | HE | 80 | 84 | PVC | TT,HR,TD | PHC,EVH | 18000 | 0 | 0 | 0 | 0 | 2900 | 1800 | 2704 | 2300 | 0 |
| Nepal | PVD Co-Financing | G 3670144 | HE | 81 | 87 | PVD | CP,TT | PHC,EVH | 1250 | 0 | 0 | 0 | 0 | 0 | 300 | 50 | 0 | 0 |
| Nepal | Rural Area Development/Rapti | G 3670129 | FN | 80 | 84 | PVC | CP,TT,HR | WSS,EVH,WAT | 26700 | 0 | 0 | 0 | 0 | 3500 | 4900 | 1450 | 4300 | 0 |
| | | | | | | | | Subtotal | 45950 | 0 | 0 | 0 | 0 | 6400 | 7000 | 4404 | 6600 | 0 |
| Pakistan | Basic Health Services | G 3910415 | HE | 77 | 81 | UNC | HR,TT,TD | PHC,EVH | 1500 | 0 | 1500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pakistan | Basic Health Services | L 3910415 | HE | 77 | 79 | UNC | HR,TT,TD | PHC,EVH | 13500 | 0 | 6000 | 0 | 1000 | 0 | 0 | 0 | 0 | 0 |
| Pakistan | Primary Health Care | G 3910475 | ES | 82 | 84 | | HR,TT,HE | PHC,EVH | 20000 | 0 | 0 | 0 | 0 | 0 | 0 | 5500 | 4900 | 8200 |
| | | | | | | | | Subtotal | 35000 | 0 | 7500 | 0 | 1000 | 0 | 0 | 5500 | 4000 | 8200 |
| Philippines | Agriculture Research II | L 4920224 | FN | 79 | 81 | LDC | TD,RO,HR | WAT,ENG | 10000 | 0 | 0 | 0 | 5000 | 2300 | 2700 | 0 | 0 | 0 |
| Philippines | Bicol Integrated Develop. II | L 4920310 | FN | 78 | 78 | LDC | TT,CP,HR | IRG,WSS,WRM | 3000 | 0 | 0 | 3000 | 0 | 0 | 0 | 0 | 0 | 0 |
| Philippines | Bicol Integrated Health | L 4920319 | HE | 79 | 81 | LDC | TD,CP,HR,PV | WSS,PHC,EVH | 2500 | 0 | 0 | 0 | 2500 | 0 | 0 | 0 | 0 | 0 |
| Philippines | Elementary School Construct. | G 4920342 | ES | 80 | 81 | LDC | TT,TD | WSS,WAT | 18000 | 0 | 0 | 0 | 0 | 18000 | 0 | 0 | 0 | 0 |
| Philippines | Feasibility Studies | L 4920264 | DL | 73 | 73 | PVC | FE | WAT,IRG,ENG | 2913 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Philippines | Municipal Development Fund | G 4920361 | ES | 81 | 84 | LDC | TT | WAT,WSS | 70000 | 0 | 0 | 0 | 0 | 0 | 22000 | 16000 | 9000 | 0 |
| Philippines | Panay Unified Services Health | G 4920312 | HE | 78 | 81 | LDC | TT,CP,HR | WSS,PHC,WAT | 316 | 0 | 0 | 316 | 0 | 0 | 0 | 0 | 0 | 0 |
| Philippines | Panay Unified Services Health | L 4920312 | HE | 78 | 78 | LDC | TT,CP,HR | WSS,PHC,WAT | 5400 | 0 | 0 | 5400 | 0 | 0 | 0 | 0 | 0 | 0 |
| Philippines | Project Design | G 4920343 | ES | 80 | 85 | LDC | TT,FE | WAT,IRG,ENG | 7000 | 0 | 0 | 0 | 0 | 2000 | 3000 | 0 | 0 | 0 |
| Philippines | PVD Co-Financing | G 4920345 | HE | 80 | 83 | PVD | TT,CP,HE | WAT,WSS,EVH | 1500 | 0 | 0 | 0 | 0 | 600 | 300 | 300 | 300 | 0 |
| Philippines | PVD Co-Financing II | G 4910367 | HE | 84 | 86 | PVD | TT,CP,HR | WAT,WSS,EVH | 1200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 300 |
| | | | | | | | | Subtotal | 121829 | 0 | 0 | 8716 | 7500 | 22900 | 28000 | 16300 | 9300 | 300 |
| Regional | Accelerated Impact Program | G 8790256 | SD | 79 | 86 | PEC | CP,TT,HE | WSS,EVH,WAT | 2700 | 0 | 0 | 0 | 0 | 225 | 300 | 200 | 200 | 0 |
| Regional | PVD Co-Financing | G 8790001 | HE | 84 | 88 | PVD | TT,HR,FE | WAT,WSS,EVH | 450 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 155 |
| Regional | PVD's | G 4980251 | HE | 76 | 87 | PVD | TT,CP,HE | WSS,EVH,WAT | 4900 | 0 | 0 | 423 | 1066 | 248 | 179 | 330 | 0 | 100 |

A

ASIA PROJECTS WITH A WATER SUPPLY AND DR SANITATION COMPONENT

DATE: 04/15/83

PAGE: 2

| COUNTRY | TITLE | PROJ# | APPR | BEG | END | AGENT | ACT.CODE | SUBCAT | LOP# | FY76 | FY77 | FY78 | FY79 | FY80 | FY81 | FY82 | FY83 | FY84 |
|-----------|--------------------------------|-----------|------|-----|-----|-------|------------|---------------|--------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | | | | Subtotal | 8050 | 0 | 0 | 423 | 1066 | 473 | 479 | 530 | 200 | 255 |
| Sri Lanka | Housing | L | HIG | 81 | 81 | LDC | TT, ID, PV | HIG, WAT, WSS | 5000 | 0 | 0 | 0 | 0 | 0 | 5000 | 0 | 0 | 0 |
| Sri Lanka | Preventative Health Services | G 3030061 | HE | 84 | 89 | LDC | ID, TT, TT | PHC, WAT, WSS | 5500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sri Lanka | Preventive Health Services | L 3030081 | HE | 84 | 89 | LDC | ID, HR, TT | WAT, PHC, WSS | 37000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1000 |
| Sri Lanka | PVD Co-Financing | G 3030060 | HE | 79 | 87 | PVD | CP, TT | WAT, EVH | 784 | 0 | 0 | 0 | 523 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | Subtotal | 48284 | 0 | 0 | 0 | 523 | 0 | 5000 | 0 | 0 | 9000 |
| Thailand | Housing | L | HIG | 79 | 79 | LDC | TT, ID, PV | HIG, WAT, SST | 5000 | 0 | 0 | 0 | 5000 | 0 | 0 | 0 | 0 | 0 |
| Thailand | Labor Intensive Water Develop. | G 4930206 | SD | 88 | 74 | PVC | TT, ID, HR | WAT, IRG, WRN | 1243 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Thailand | Non-Formal Vocational Educ. | G 4930295 | EH | 80 | 80 | PVC | TT, HR, CP | WRD, EVH | 500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Thailand | PVD Co-Financing | G 4930296 | HE | 80 | 82 | PVD | TT, CP, HR | WAT, WSS, EVH | 437 | 0 | 0 | 0 | 0 | 500 | 0 | 0 | 0 | 0 |
| Thailand | Relief and Reconstruction | G 4930327 | ES | 80 | 80 | LDC | TT, CP | PHC, WSS, WAT | 2000 | 0 | 0 | 0 | 0 | 0 | 0 | 437 | 0 | 0 |
| Thailand | Rural Health | G 4930179 | HE | 61 | 76 | AID | HE, HR, TT | PHC, WSS, WAT | 6168 | 0 | 0 | 0 | 0 | 2000 | 0 | 0 | 0 | 0 |
| Thailand | Rural Primary Health Care | L 4930291 | HE | 78 | 78 | LDC | TT, HE, HR | PHC, WSS, WAT | 5500 | 0 | 0 | 5500 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | Subtotal | 20848 | 0 | 0 | 5500 | 5000 | 2500 | 0 | 437 | 0 | 0 |
| | | | | | | | | Total | 360268 | 6314 | 14834 | 20406 | 17969 | 46993 | 62601 | 28171 | 32050 | 18855 |

ASIA WATER RESOURCES AND ENVIRONMENTAL HEALTH PROJECTS

DATE: 06/13/84

PAGE: 1

| COUNTRY | TITLE | PRJ# | APPR | REG | END AGENT | ACT. CODE | SUSCAT | LOP# | FY80 | FY81 | FY82 | FY83 | FY84 |
|-------------|--------------------------------|-----------|------|-----|-----------|-----------|----------|--------|-------|-------|------|------|------|
| Indonesia | Surakarta Water Supply | L 4970262 | HE | 77 | 83 | PVC | Urban | | 6800 | 0 | 0 | 0 | 0 |
| | | | | | | | Subtotal | | 6800 | 0 | 0 | 0 | 0 |
| Korea | Chong Bye Chun Sewage | L 4890089 | DL | 74 | 74 | LDC | Urban | | 2517 | 0 | 0 | 0 | 0 |
| | | | | | | | Subtotal | | 2517 | 0 | 0 | 0 | 0 |
| Korea(R) | Potable Water Systems (CARE) | G 4980025 | HE | 76 | 78 | PVO | Towns | | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | Subtotal | | 0 | 0 | 0 | 0 | 0 |
| Philippines | Sarangay Water I | G 4920291 | HE | 78 | 79 | LDC | PROV | | 184 | 0 | 0 | 0 | 0 |
| Philippines | Sarangay Water I | L 4920291 | HE | 78 | 82 | LDC | PROV | | 6006 | 0 | 0 | 0 | 0 |
| Philippines | Barangay Water II | G 4920333 | HE | 80 | 84 | LDC | PROV | 5,063 | 2537 | 887 | 750 | 750 | 0 |
| Philippines | Barangay Water II | L 4920333 | HE | 80 | 84 | LDC | PROV | 5,063 | 19500 | 7500 | 9260 | 1800 | 0 |
| Philippines | Local Water Development | G 4920309 | HE | 76 | 83 | LDC | Urban | | 500 | 0 | 0 | 0 | 0 |
| Philippines | Local Water Development | G 4920309 | SD | 76 | 79 | LDC | Urban | | 500 | 0 | 0 | 0 | 0 |
| Philippines | Local Water Development | L 4920309 | HE | 76 | 77 | LDC | Urban | | 20000 | 0 | 0 | 0 | 0 |
| Philippines | Provincial Waterworks | G 4920263 | HE | 74 | 77 | PVC | DIST | | 750 | 0 | 0 | 0 | 0 |
| Philippines | Provincial Waterworks | L 4920263 | HE | 74 | 77 | PVC | DIST | | 14000 | 0 | 0 | 0 | 0 |
| | | | | | | | Subtotal | | 64071 | 6387 | 9950 | 2550 | 0 |
| Regional | Rural Water Supply | G 8790269 | HE | 81 | 84 | LDC | Rural | | 600 | 0 | 200 | 200 | 200 |
| | | | | | | | Subtotal | | 600 | 0 | 200 | 200 | 200 |
| Sri Lanka | Market Town Water Supply | G 3830063 | HE | 80 | 82 | | Urban | 90,000 | 2900 | 2000 | 0 | 0 | 0 |
| Sri Lanka | Market Town Water Supply | L 3830063 | HE | 80 | 82 | | REG | 90,000 | 6000 | 5517 | 0 | 483 | 0 |
| Sri Lanka | Water Supply & Sanitation Sect | G 3830098 | HE | 84 | 86 | | Rural | | 5000 | 0 | 0 | 0 | 500 |
| Sri Lanka | Water Supply & Sanitation Sect | L 3830088 | HE | 84 | 87 | LDC | Rural | | 13000 | 0 | 0 | 0 | 2000 |
| | | | | | | | Subtotal | | 26900 | 7517 | 0 | 483 | 0 |
| Thailand | Potable Water Project | G 4930186 | HE | 66 | 73 | LDC | REG | | 2989 | 0 | 0 | 0 | 0 |
| Thailand | Rural Water Supply (FWMA) | L 4930331 | HE | 83 | 88 | LDC | Rural | | 6900 | 0 | 0 | 0 | 5000 |
| | | | | | | | Subtotal | | 8989 | 0 | 0 | 0 | 5000 |
| | | | | | | | Total | 108977 | 15904 | 10150 | 3233 | 5200 | 3500 |

B

Summary of WASH Project Activities
for Asia Bureau

Table of Contents

Summary of WASH Project Activities

WASH Costs for Asia Bureau: 21 T-Tasks 23 C-Tasks

Summaries of Specific Activities

WASH Report*

| | | |
|--------|-------------------------------|----------------|
| T- 11 | Philippines | F.R. # 3 |
| T - 25 | Indonesia | F.R. #16 |
| T - 28 | India | F.R. #14 |
| T - 38 | Thailand | F.R. #19 |
| T - 40 | Philippines | F.R. #54 |
| T - 43 | Philippines | F.R. #57 |
| T - 44 | Indonesia | F.R. #28 |
| T - 54 | Thailand | |
| T - 73 | Indonesia | F.R. #39 |
| T - 79 | Indonesia | F.R. #42 |
| T -117 | Indonesia | F.R. #71 |
| T -119 | Philippines | |
| T -123 | Thailand | F.R. #68 |
| T -128 | Asia Bureau | |
| T -133 | Indonesia | F.R. #90 |
| T -136 | Indonesia | F.R. #83 |
| T -138 | Sri Lanka | F.R. #s 94,122 |
| T -139 | Thailand | |
| T -155 | Indonesia | F.R. #107 |
| T -156 | Sri Lanka | |
| T -169 | Bangladesh | |
| C - 98 | Asia Bureau | T.R. # 9 |
| | Sri Lanka - WASH/APHA | |
| | Thailand - WASH/APHA | |
| | Indonesia - WASH/Georgia Tech | |

*The April 1984 List of WASH Publications is the last section of this report. F.R. indicates a Field Report; T.R. indicates a Technical Report.

Summary of WASH Project Activities for Asia Bureau (Cont.)

September 2, 1980 - May 26, 1984

| WASH Number | Country/Bureau | Title | Person Days Authorized | Estimated Costs | Status* |
|-------------|--------------------------|--|------------------------|-----------------|---------|
| T-11 | Philippines | Local Manufacturing for Water Supply and Sanitation Devices | 14 | \$ 1,232 | C |
| T-25 | Indonesia | Rural Sanitation Manpower Development (RSMD): Workshop and Program Assistance | 115 | \$ 28,312 | C |
| T-28 | India | Representative of DS/HEA and WASH at Conference of World Federation of Public Health Associations, Calcutta, India, 23-26 February 1981 | 36 | \$ 11,389 | C |
| T-38 | Thailand | Further Development of Rural Water and Sanitation Project | 100 | \$ 47,704 | C |
| T-40 | Philippines | AID Handpumps Manufacture | 420 | \$ 156,702 | C |
| T-43 | Philippines | Technical Assistance for the Barangay Water Program | 80 | \$ 20,901 | C |
| T-44 | Indonesia | Training and Technical Assistance for Technology Development and Dissemination in Water and Sanitation for Rural Sanitation Manpower Project | 69 | \$ 11,134 | C |
| T-54 | Thailand/ Asia Bureau | Participating in AID Health Officers Workshop in Chaing Mai, Thailand, 8-14 November 1981 | 23 | \$ 6,373 | C |

*Status

C: Complete
O: Ongoing

2

Summary of WASH Project Activities for Asia Bureau (Cont.)
September 2, 1980 - May 26, 1984

| WASH Number | Country/Bureau | Title | Person Days Authorized | Estimated Costs | Status* |
|-------------|----------------|--|------------------------|-----------------|---------|
| T-73 | Indonesia | Technical Assistance in Revision of CARE Water Supply and Sanitation Project | 40 | \$ 12,338 | C |
| T-79 | Indonesia | Technical Assistance in Planning Diarrheal Disease Control Sub-project | 35 | \$ 6,656 | C |
| | Indonesia | Local Manufacture and Utilization of the AID Handpump | Aug. '79- Aug. '81 | \$ 358,000 | C |
| T-117 | Indonesia | Engineering Evaluation of Foster Parents Plans Water Projects | 40 | \$ 13,324 | C |
| T-119 | Philippines | Feasibility Study for Evaluating PUSH & BICOL HNP Projects | 30 | \$ 642 | C |
| T-123 | Thailand | Management Training Workshop for PWA | 35 | \$ 11,553 | C |
| T-128 | Asia Bureau | Coordination/Collaboration on Water and Sanitation | 4 | \$ 2,026 | C |
| T-133 | Indonesia | Planning Small Scale Rural Water Supply Systems for PVO | 40 | \$ 9,566 | C |
| T-136 | Indonesia | Development of SOW for Evaluation fo CARE WS&S Projects | 27 | \$ 9,979 | C |
| T-138 | Sri Lanka | Technical, Training & Management Assistance to Nat'l Water Supply | 275 | \$ 112,340 | C |

*Status Completed
C: Completed
O: Ongoing

Summary of WASH Project Activities for Asia Bureau (Cont.)

September 2, 1980 - May 26, 1984

| WASH Number | Country/Bureau | Title | Person Days Authorized | Estimated Costs | Status* |
|-------------|----------------|--|------------------------|-----------------|---------|
| T-139 | Thailand | Development of Background Material for RWS | 66 | \$ 29,879 | C |
| T-155 | Indonesia | Technical Assistance to USAID and CARE | 47 | \$ 15,123 | C |
| T-156 | Sri Lanka | Public Health Evaluation | 42 | \$ 22,738 | O |
| T-169 | Bangladesh | Participation in International Workshop on Measuring the Health Impacts of Water Supply and Sanitation Projects, November 21-25, 1983 Dhaka | 11 | \$ 854 | C |

*Status

C: Completed
O: Ongoing

WASH Costs as of 5/26/84

ASIA BUREAU

USAID BUREAU: ASIA

- :C-0068 Develop Scope of Work for APP TECH
Component of Manpower Development

| | |
|------------------|-------|
| WS&S Tech Assist | 106 |
| CIC Co-ordin. | 159 |
| | ----- |
| | 265 |

C-0074 Preparation for WASH representation
at WFPHA Conference (Nepal,
Bangladesh & Thailand)

| | |
|-------------|-------|
| Information | 12 |
| | ----- |
| | 12 |

C-0098 Prepare Project Analysis and
Recommendations as Background for
Asia Bureau Policy Paper on WS&S in
the Context of PHC

| | |
|------------------|--------|
| Information | 2,818 |
| CIC Co-ordin. | 2,160 |
| WS&S Tech Assist | 6,346 |
| Supplies | 125 |
| Travel | 1,738 |
| | ----- |
| | 13,187 |

C-0157 Suggest Appropriate PHC Projects in
Asia to be Visited by Philippine
Officials

| | |
|-------------|-------|
| Information | 55 |
| | ----- |
| | 55 |

B-405 Sri Lanka: Identify water/sanitation
training evaluator candidates

| | |
|------------------|-------|
| Supplies | 25 |
| CIC Co-ordin. | 178 |
| WS&S Tech Assist | 486 |
| | ----- |
| | 689 |

Totals for Not Mission Specific: 19,892

- Bangladesh :T-0169 Attendance at Workshop
CIC Co-ordin. 831
Supplies 23

854

Totals for Bangladesh: 854

- Indonesia :B-0399 Indonesia: Evaluation of CARE Water Program
WS&S Tech Assist 861
CIC Co-ordin. 620
Supplies 33
Travel 3,302

4,816

C-0120 Preliminary Activity Prior to OTD for Indonesia Training
CIC Co-ordin. 614

614

C-0190 Indonesia: Integration of Health Education and WS&S
CIC Co-ordin. 203

203

C-0193 Indonesia: Preliminary Work Leading
to Request for Assistance to CHIPS
Project

| | |
|------------------|-------|
| WS&S Tech Assist | 242 |
| CIC Co-ordin. | 37 |
| Information | 41 |
| | <hr/> |
| | 320 |

C-0354 Indonesia: Search for Evaluation
Consultant

| | |
|------------------|-------|
| Information | 1 |
| CIC Co-ordin. | 239 |
| WS&S Tech Assist | 86 |
| Supplies | 75 |
| Travel | 2,700 |
| | <hr/> |
| | 3,101 |

C-0363 Indonesia: Identity Consultant for
Irian Jaya WS&S Program

| | |
|------------------|-------|
| WS&S Tech Assist | 44 |
| CIC Co-ordin. | 26 |
| Supplies | 1 |
| Travel | 4 |
| | <hr/> |
| | 75 |

T-0025 Technical assistance to
AID/Indonesia

| | |
|------------------|--------|
| CIC Co-ordin. | 387 |
| WS&S Tech Assist | 3,855 |
| Information | 1,897 |
| Supplies | 104 |
| Training | 11,384 |
| Tech. Transfer | 1,898 |
| Travel | 8,787 |
| | <hr/> |
| | 28,312 |

T-0044 Indonesia: Training and Technical
Assistance

| | |
|------------------|--------|
| Supplies | 434 |
| WS&S Tech Assist | 686 |
| CIC Co-ordin. | 969 |
| Training | 313 |
| Travel | 7,653 |
| Tech. Transfer | 916 |
| Miscellaneous | 6 |
| Information | 157 |
| | ----- |
| | 11,134 |

T-0073 Indonesia: Health Education/Care
WS&S

| | |
|------------------|--------|
| Travel | 4,370 |
| Training | 81 |
| Supplies | 585 |
| WS&S Tech Assist | 5,996 |
| CIC Co-ordin. | 1,093 |
| Information | 213 |
| | ----- |
| | 12,338 |

T-0079 Indonesia: Technical Assistance for
USAID/Indonesia

| | |
|------------------|-------|
| WS&S Tech Assist | 5,884 |
| CIC Co-ordin. | 425 |
| Supplies | 347 |
| | ----- |
| | 6,656 |

T-0117 Indonesia: Engineering Evaluation
of Foster Parents Plan's Water
Projects

| | |
|------------------|--------|
| WS&S Tech Assist | 6,266 |
| CIC Co-ordin. | 1,253 |
| Information | 79 |
| Miscellaneous | 165 |
| Travel | 4,251 |
| Supplies | 1,310 |
| | ----- |
| | 13,324 |

T-0133 Indonesia: Planning Small Scale
Rural Water Supply Systems for PVO.

| | |
|------------------|-------|
| Travel | 2,376 |
| Supplies | 1,140 |
| Miscellaneous | 43 |
| CIC Co-ordin. | 915 |
| WS&S Tech Assist | 5,092 |
| | ----- |
| | 9,566 |

T-0136 Indonesia: Development of Scope of
Work for Evaluation of CARE WS&S
Projects

| | |
|------------------|-------|
| Travel | 4,304 |
| Supplies | 745 |
| Miscellaneous | 89 |
| CIC Co-ordin. | 667 |
| WS&S Tech Assist | 4,174 |
| | ----- |
| | 9,979 |

T-0155 Indonesia: Technical Assistance to
USAID and CARE

| | |
|------------------|--------|
| Miscellaneous | 487 |
| CIC Co-ordin. | 993 |
| Boston Support | 113 |
| WS&S Tech Assist | 10,213 |
| Travel | 2,732 |
| Supplies | 585 |
| | ----- |
| | 15,123 |

Totals for Indonesia: 115,561

- India :C-0118 Preliminary Activity Leading to a
Request for Assistance to the
Gujarat Integrated Sanitation
Project

| | |
|-------------|-------|
| Information | 8 |
| | ----- |

| | | |
|--------|--|---------|
| | WS&S Tech Assist | 604 |
| | CIC Co-ordin. | 222 |
| | | <hr/> |
| | | 3,938 |
| C-0317 | Philippines: Feasibility of Evaluation of PUSH and BICOL Projects | |
| | WS&S Tech Assist | 253 |
| | Supplies | 41 |
| | CIC Co-ordin. | 16 |
| | | <hr/> |
| | | 310 |
| T-0011 | Philippines Technical Assistance in Local Manufacturing of Hand Pump, Roboscreens and Robovalves | |
| | CIC Co-ordin. | 652 |
| | Tech. Transfer | 580 |
| | | <hr/> |
| | | 1,232 |
| T-0040 | Technical Assistance to Manila, Philippines | |
| | Information | 5,020 |
| | Miscellaneous | 181 |
| | Tech. Transfer | 76,717 |
| | Travel | 26,915 |
| | Supplies | 33,562 |
| | Training | 5,020 |
| | CIC Co-ordin. | 1,637 |
| | WS&S Tech Assist | 7,150 |
| | Boston Support | 500 |
| | | <hr/> |
| | | 156,702 |
| T-0043 | Philippines: Barangay Water Program | |
| | Training | 1,169 |
| | Supplies | 5,352 |
| | Travel | 4,092 |
| | Tech. Transfer | 971 |

| | |
|------------------|--------|
| Information | 1,169 |
| CIC Co-ordin. | 1,067 |
| WS&S Tech Assist | 7,081 |
| | <hr/> |
| | 20,901 |

T-0119 Philippines: Feasibility Study for
Evaluating PUSH and Bicol HNP
Projects

| | |
|------------------|-------|
| WS&S Tech Assist | 353 |
| CIC Co-ordin. | 48 |
| Supplies | 16 |
| Tech. Transfer | 225 |
| | <hr/> |
| | 642 |

Totals for Philippines:

184,048

- Sri Lanka

:C-0016 1,000 Copies of Sri Lanka Summary
Report & Send to N.Y.

| | |
|---------------|-------|
| CIC Co-ordin. | 70 |
| Information | 551 |
| | <hr/> |
| | 621 |

C-0300 Sri-Lanka: Request for information
services for listing of training
materials

| | |
|---------------|-------|
| CIC Co-ordin. | 9 |
| Information | 326 |
| Supplies | 2 |
| | <hr/> |
| | 337 |

C-0303 Sri Lanka: Preparatory work leading
to possible OTD for assistance to
NWSDB.

| | |
|----------|-------|
| Training | 99 |
| | <hr/> |
| | 99 |

C-0335 Sri Lanka: Evaluation of Health and
Social Impacts of Domestic Use of
Irrigation Water

| | |
|------------------------------|-----------|
| CIC Co-ordin. Information | 17 232 |
| | ----- |
| | 249 |

T-0138 Sri Lanka: Omnibus Training &
Program Activities

| | |
|------------------------------|--------------|
| WS&S Tech Assist | 52,578 |
| Supplies | 7,327 |
| Training | 9,261 |
| Travel | 30,287 |
| Tech. Transfer | 2,916 |
| Boston Support | 29 |
| CIC Co-ordin. Information | 6,940 140 |
| Miscellaneous | 2,862 |
| | ----- |
| | 112,340 |

T-0156 Sri Lanka: Public Health Evaluation

| | |
|------------------|--------|
| Supplies | 78 |
| Travel | 4,000 |
| CIC Co-ordin. | 4,704 |
| WS&S Tech Assist | 13,956 |
| | ----- |
| | 22,738 |

Totals for Sri Lanka: 136,384

- Thailand :B-0367 Thailand: Assistance in
Identification of Design Team for
RWS Project

| | |
|---------------|-------|
| Training | 147 |
| Supplies | 9 |
| CIC Co-ordin. | 48 |
| | ----- |

8

Totals for India:

8

- Nepal :A-0326 Compilation of AID Data on Training
in Water Supply and Sanitation

| | |
|------------------------------|-------|
| WS&S Tech Assist | 560 |
| CIC Co-ordin. Information | 16 |
| | 328 |
| | ----- |
| | 904 |

T-0028 Technical Assistance to India,
Bangladesh, Nepal & Thailand

| | |
|------------------------------|--------|
| CIC Co-ordin. Information | 2,701 |
| Supplies | 1,446 |
| WS&S Tech Assist | 364 |
| Training | 3,897 |
| Travel | 33 |
| Tech Transfer | 2,300 |
| | 648 |
| | ----- |
| | 11,389 |

- Philippines :C-0116 Philippines: Barangay Water
Program

| | |
|------------------|-------|
| WS&S Tech Assist | 152 |
| Travel | 58 |
| Information | 113 |
| | ----- |
| | 323 |

C-0208 Managerial and Administrative Tasks
Required for OTD 40

| | |
|----------------|-------|
| Tech. Transfer | 3,069 |
| Supplies | 43 |

204

C-0302 Thailand: Preliminary work leading to possible OTD for assistance to PWA staff development program

| | |
|---------------|-------|
| Training | 224 |
| CIC Co-ordin. | 38 |
| | <hr/> |
| | 262 |

T-0038 Technical Assistance to Thailand (Development of Rural Water Supply Project)

| | |
|------------------|--------|
| Travel | 4,980 |
| Supplies | 720 |
| Information | 2,416 |
| CIC Co-ordin. | 3,210 |
| Boston Support | 11,345 |
| WS&S Tech Assist | 21,412 |
| Tech. Transfer | 3,621 |
| | <hr/> |
| | 47,704 |

T-0123 Thailand: Management Training Workshop for PWA

| | |
|------------------|--------|
| Information | 31 |
| CIC Co-ordin. | 548 |
| WS&S Tech Assist | 5,429 |
| Supplies | 1,214 |
| Training | 740 |
| Travel | 3,591 |
| | <hr/> |
| | 11,553 |

T-0139 Thailand: Development of Background Material for Rural Water Supply

| | |
|------------------|--------|
| CIC Co-ordin. | 698 |
| WS&S Tech Assist | 21,167 |
| Miscellaneous | 105 |
| Supplies | 476 |
| Training | 48 |
| Travel | 7,385 |
| | <hr/> |

| | | |
|--------|--|--------------|
| T-0054 | Thailand: USAID Health Officers' Workshop | |
| | WS&S Tech Assist | 3,796 |
| | CIC Co-ordin. | 1,121 |
| | Equipment | 17 |
| | Information | 70 |
| | Miscellaneous | 12 |
| | Supplies | 184 |
| | Travel | 1,173 |
| | | <u>6,373</u> |

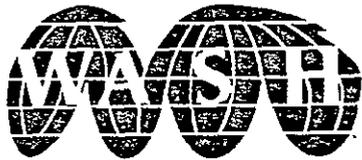
| | | |
|----------------------|--|---------------|
| Totals for Thailand: | | <u>36,252</u> |
|----------------------|--|---------------|

| | | |
|--------|---|--------------|
| T-0128 | Asia: Coordination/Collaboration on Water and Sanitation | |
| | WS&S Tech Assist | 1,035 |
| | CIC Co-ordin. | 74 |
| | Supplies | 2 |
| | Travel | 915 |
| | | <u>2,026</u> |

| | | |
|--------|---|--------------|
| C-0325 | Preparation for International Seminar on Human Waste Management - Bangkok, January 1983 | |
| | WS&S Tech Assist | 2,462 |
| | Travel | 375 |
| | CIC Co-ordin. | 937 |
| | | <u>3,774</u> |

| | | |
|------------------|--|----------------|
| Totals for ASIA: | | <u>564,442</u> |
|------------------|--|----------------|

**WATER AND SANITATION
FOR HEALTH PROJECT**



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The first two pages list WASH Report numbers by subject categories, by countries, and by AID Regional Bureaus and Offices for whom the report was prepared.

The remaining pages present WASH Report titles in sequence by Report number. Technical Reports are listed first, pages 3-4; followed by the list of Field Reports, pages 4-8.

WASH Reports are prepared under task numbers which are indicated in each citation. C-Task refers to work done by or for the WASH Coordination and Information Center (CIC).

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WASH Information Center
April 1984

LIST OF WASH PUBLICATIONS

SUBJECT CATEGORIES AND COUNTRIES
OF WASH TECHNICAL REPORTS (TR) AND WASH FIELD REPORTS (FR)

(By Report Number - see numerical list of titles following)

Bibliographies and Synthesis Documents

TR: 4; 15; 18; 21; 22;

FR: 26; 117; 118; 119;

Community Education and Participation (CEP)

TR: 7; 11; 15; 18; 19;

FR: 2; 6; 13; 37; 39; 42; 59; 62;
69; 75; 77; 78; 83; 90; 91; 92;
95; 99; 107; 115; 121;

Disaster Assistance

FR: 25; 41; 66; 74; 79; 112

Evaluation

TR: 4; 5; 12; 14

FR: 1; 2; 5; 22; 24; 27; 35; 44; 49;
57; 65; 71; 76; 82; 83; 84; 86;
96; 104; 105; 106; 107; 113;
120;

Human Resource Development (HRD) (including training)

TR: 3; 13; 15; 19; 20;
22;

FR: 7; 8; 16; 21; 28; 31; 34; 38;
39; 42; 43; 44; 45; 49; 50; 51;
56; 58; 60; 61; 62; 67; 68; 69;
70; 73; 74; 87; 88; 91; 92; 93;
94; 95; 97; 99; 108; 110; 114; 115;
117; 118; 122;

Housing

FR: 46; 109; 113;

Information

FR: 18; 26; 28; 48; 64; 80; 111;
117; 118;

Institutional Development

TR: 3; 4; 5; 7; 8; 15; 19;

FR: 6; 8; 12; 13; 19; 21; 22; 23;
24; 27; 33; 34; 35; 38; 39; 47;
49; 50; 67; 68; 69; 72; 76; 79;
86; 94; 95; 105; 108; 109; 111; 117;
119;

Planning

TR: 9; 10; 14; 15; 19; 20;

FR: 5; 7; 8; 9; 11; 14; 18; 27; 33;
34; 35; 36; 40; 47; 52; 53; 58;
63; 66; 72; 75; 79; 80; 81; 86;
88; 89; 90; 95; 97; 105; 106; 109;
111; 113; 116; 121;

Private Volunteer Organizations (PVO's)

FR: 2; 9; 30; 37; 39; 40; 56; 59;
71; 75; 77; 83; 90; 106; 107;

Public Health

TR: 1; 2; 5; 8; 12; 15; 16; 17;
18; 19;

FR: 1; 7; 8; 11; 23; 29; 31; 37; 39;
42; 44; 55; 66; 67; 69; 71; 72;
75; 77; 78; 79; 91; 99; 104; 110;
112; 120;

Sanitation

TR: 11; 14; 15; 16; 17; 18; 19;

FR: 1; 9; 10; 17; 19; 25; 26; 28;
30; 33; 37; 38; 42; 44; 45; 46;
47; 51; 52; 53; 55; 58; 60; 66;
67; 69; 70; 71; 72; 75; 77; 78;
79; 86; 91; 92; 93; 95; 99; 104;
109; 112; 113; 114; 120; 121;

Technology Transfer (including local manufacturing and R&D)

FR: 3; 5; 6; 16; 20; 26; 45; 54; 59;
60; 69; 76; 80; 85; 87; 89; 98;
100; 101; 102; 103; 110;

WASH Contributions to Conference, Seminars, etc.

TR: 8; 13; 14; 16; 17;

FR: 15; 48; 63; 64; 67; 77;

Water Supply (including hydrology)

TR: 1; 2; 14; 15; 16; 17; 18;

FR: 1; 2; 4; 6; 9; 11; 19; 22; 24;
25; 26; 30; 32; 36; 37; 38; 40;
41; 42; 43; 45; 46; 50; 51; 53;
54; 56; 57; 59; 60; 61; 62; 63;
65; 66; 67; 68; 69; 70; 71; 72;
73; 74; 75; 76; 77; 78; 80; 81;
82; 83; 84; 85; 86; 87; 88; 90;
94; 96; 99; 105; 106; 107; 110; 112;
113; 115; 116; 117; 118; 122;

Women in Development

TR: 6; 11; 15; 17; 18; 19; 21;

Workshops

TR: 8; 13;

FR: 29; 30; 31; 36; 45; 54; 56; 60;
63; 67; 68; 70; 87; 91; 93; 94;
97; 99; 114; 115; 122;

WASH TECHNICAL REPORTS AND FIELD REPORTS
BY COUNTRY AND REGIONAL BUREAUS

| | | |
|-----------------------------|-----------|---|
| Bolivia | | FR: 47; 116; 121; |
| Botswana | | FR: 95; |
| Brazil | | FR: 40; |
| Burundi | | FR: 24; 78; |
| Cameroon | TR: 3; 5; | FR: 75; |
| Central African Republic | | FR: 53; 72; 97; |
| Dominican Republic | | FR: 5; 20; 21; 23; 35; 50; 76; 80; 93; 98; 101; 111; |
| El Salvador | | FR: 26; |
| Ecuador | | FR: 9; 12; 13; 49; 59; 63; 74; 110; |
| Egypt | | FR: 33; 52; |
| Guatemala | TR: 12; | FR: 56; 104; |
| Haiti | | FR: 2; 77; 96; |
| Honduras | | FR: 46; 65; 69; 76; 81; 85; 103; |
| Indonesia | | FR: 16; 28; 39; 42; 71; 83; 90; 107; |
| Ivory Coast | | FR: 113; |
| Jordan | | FR: 17; 34; 36; |
| Kenya | | FR: 106; |
| Lebanon | | FR: 10; 66; 79; |
| Lesotho | | FR: 55; |

| | | |
|--|--------------------|--|
| Mali | | FR: 32; |
| Malawi | TR: 4; | FR: 99; 105; |
| Mauritania | | FR: 11; 112; |
| Morocco | | FR: 43; 61 |
| Peru | | FR: 1; 6; 30; 38; 48; 89; |
| Philippines | | FR: 3; 54; 57; 76; |
| Senegal | | FR: 44; 91; |
| Sierra Leone | | FR: 114; |
| Sri Lanka | | FR: 76; 94; 122; |
| Sudan | | FR: 37; |
| Swaziland | | FR: 108; 120; |
| Tanzania | | FR: 7; 8; 58; 92; |
| Thailand | | FR: 19; 68; |
| Togo | TR: 13; | FR: 27; 51; 82; 87; |
| Tunisia | TR: 8; | FR: 4; 67; 84; 100; 109; |
| Yemen | | FR: 22; |
| Zaire | | FR: 62; 73; 88; 115; |
| AFRICA Bureau | TR: 13; 19; | FR: 81; |
| ASIA Bureau | TR: 9; | FR: 14; 64; |
| LAC Bureau | | FR: 15; 30 |
| NE Bureau | TR: 8; | FR: 29; 117; 118; 119; |
| Office of Foreign Disaster Assistance: | | FR: 25; 41; 66; 74; 79; 112; |
| Office of Health: | TR: 6; 12; 14; 20; | FR: 1; 2; 14; 18; 30; 31; 41; 45; 48; 60; 64; 76; 86; 102; |
| Office of Housing: | | FR: 46; 109; 113; |

LIST OF WASH PUBLICATIONS: TECHNICAL AND FIELD REPORTS

TECHNICAL REPORTS

1. WASH Technical Report 1. Triocide Questions and Answers. November, 1980 by Peter Kolsky.
2. WASH Technical Report 2. Possible Disinfection of Oral Rehydration Solutions. Notes from November 13, 1980 meeting with Richard Cash and Lincoln Chen, by Raymond B. Isely.
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OTD #11 -November 21, 1980

LOCAL MANUFACTURING FOR WATER SUPPLY AND SANITATION DEVICES - PHILIPPINES

The AID Offices of Capital Development and Engineering in Manila have programmed the local manufacture of AID hand pumps and Roboscreens, which are used in wells and infiltration galleries to screen out sand. They requested WASH Project assistance in laying out the scope of work for the procurement, supervision and production of this equipment and of complete wind-powered water pumping system/facilities.

A WASH consultant from Georgia Institute of Technology spent a week in the Philippines with the AID Mission, inspected local manufacturing facilities, and drafted a proposed scope of work for a local manufacturing program to produce 250 shallow-well hand pumps, 250 deep-well hand pumps, and spare parts over a 24 month period. The draft program also includes four pilot projects of communal water systems/facilities powered by wind energy to be designed, procured, installed and operated during an 18 month period.

The draft scope of work, including options for \$463,000 and \$337,000, is being reviewed by the Mission. Of the fourteen persons days allocated to this OTD, six were used. For further information, contact Mr. James Arbuthnot.

Water and Sanitation for Health Project
Order of Technical Direction Number 11

TO: Mr. James Arbuthnot
WASH Project Director

November 21, 1980

FROM: Manoj K. Batvaia, P.E. *MB*
Victor W.R. Wehman, Jr., P.E., R.S. *WVW*
AID WASH Project Managers

SUBJECT: Philippines Technical Assistance in Local Manufacture of AID
Hand Pump, Roboscreens and Robovalves, and Other Devices in
Water Supply and Sanitation (WS&S)

REFS: (A) Manila cable 06934, 2 pages, (B) proposed scope of work (initial)

1. WASH contractor/sub-contractor/consultants requested to provide services as follows for up to a total of 14 person days level of effort including travel.

2. Contractor to initiate coordination with USAID/Manila (Mr. Charles Brady and others in Capital Development and Engineering Division), to go to Manila to work out a detailed scope of work for local manufacturing needs in conjunction with Barangay I and II projects, Bicol project and Panay project. See Mr. Witten for details on these projects and ask him to provide copies of PP's for study and discussion before going to the field.

3. Recommend that Contractor strongly consider direct subcontract with Georgia Tech (Potts et al) since they have intimate knowlege of local manufacturing aspects, detailed knowledge of individuals involved and detailed knowledge of local manufacture of AID handpump, roboscreens, and robovalves.

If satisfactory scope of work is obtained, WASH contractor possibly will be requested in a future Order of Technical Direction in December 80 to provide 6-10 person months of technical assistance over a 10 months period to carry out the local manufacture program. This program will be very similar to the existing programs carried out by Georgia Tech in Nicaragua, Costa Rica, Tunisia, Ecuador, Indonesia, Sri Lanka, and Dominican Republic over the last few years. Currently, there are programs going on in Indonesia and Sri Lanka.

4. Recommend contractor initiate coordination with USAID immediately so that scope of work can be developed before 20 December 80, if possible. It may be possible to schedule this scope of work development in conjunction with an upcoming (Potts) trip in which he is going to Indonesia and Sri Lanka on hand pump program business for A.I.D.

5. Up to six days international, domestic and local travel and per diem is authorized contractor at current per diem rates (see rate schedule).

UNCLASSIFIED
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INCOMING
TELEGRAM

PAGE 01
MANILA 03334 01 OF 02 051920Z

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MANILA 03334 01 OF 02 281920Z

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TO SECSTATE WASHDC 2934

UNCLAS SECTION 01 OF 02 MANILA 03334

110AC

ATTENTION: MR. VIC VENHAM/NAL RICE

CO. 12055: N/A

SUBJECT: TECHNICAL ASSISTANCE BARANGAY WATER PROGRAM

REF: (A) BRADY/MCDONALD/LEHMAN CONVERSATION 3/12/79
(B) MANILA 03337 (C) STATE 035639
(D) MANILA 0716 (E) STATE 110756

SUMMARY: IN MARCH, AID/V OFFICIALS VISITED MANILA AND DISCUSSED POSSIBILITY OF USAID RECEIVING TA UNDER NEW CENTRALLY FUNDED PROJECT. IN REF (B) USAID INDICATED INTEREST AND REF (C) ASKED FOR A DETAILED SCOPE-OF-WORK. THIS CABLE PROVIDES THE REQUESTED DETAILS. END SUMMARY.

1. AS PER REQUEST IN REF (C) PARA 2 BELOW CONTAINS A DETAILED SCOPE FOR AID.V'S CONSIDERATION:

2. A WELL QUALIFIED PROFESSIONAL ORGANIZATION BE CONTRACTED UNDER A CENTRALLY FUNDED ARRANGEMENT TO PROVIDE TECHNICAL SERVICES TO USAID MANILA'S OFFICE OF CAPITAL DEVELOPMENT, FROM WHICH THE CONTRACTOR WILL DERIVE GUIDANCE AND THROUGH WHICH THE CONTRACTOR WILL COORDINATE ACTIVITIES WITH THE GOP, AS FOLLOWS:

A. PHASE I (5 TO 8 WORK MONTHS): THE CONTRACTOR WORKING IN CONSULTATION WITH USAID/MANILA, APPROPRIATE GOP AGENCIES AND SELECTED INDUSTRIES, WILL UNDERTAKE THE FOLLOWING PROGRAM ACTIVITIES:

(1) PLAN, ORGANIZE AND SCHEDULE THE MANUFACTURING OF AID PUMPS, WELL SCREENS, ROBOVALVES AND MODIFIED PUMP CYLINDERS BY APPROPRIATE PHILIPPINE MANUFACTURERS. FIVE TENTATIVELY IDENTIFIED COMPANIES INCLUDE TRI-STAR (AID PUMPS), HELTEX (ROBOSCREENS, ROBOVALVES); METAPHIL (AID PUMPS) IN CEBU; AND NEW COMMONWEALTH (AID PUMPS) IN ILOILO. HELTEX IN MANILA WOULD ALSO BE EXPECTED TO MANUFACTURE THE MODIFIED PUMP CYLINDERS NINHOEPPSE AID DEEP WELLS. SHOULD ANY OF THESE COMPANIES BE UNWILLING OR UNABLE TO ACCEPT THE ORDERS, THE CONTRACTOR WILL SEEK ALTERNATIVE MANUFACTURERS. PAYMENTS TO THE MANUFACTURERS WILL BE MADE AT APPROPRIATE STAGES OF THE MANUFACTURING PROCESS.

(2) PLACE ORDER WITH THE ABOVE COMPANIES FOR A TOTAL OF 150 AID PUMP CYLINDERS.

(3) PROVIDE ASSISTANCE TO THE VARIOUS COMPANIES FOR THE MANUFACTURE OF THE PUMPS AND OTHER COMMODITIES IN ORDER TO INSURE THAT THE PRODUCTS MEET QUALITY STANDARDS. THIS ASSISTANCE WILL INCLUDE, BUT NOT BE RESTRICTED TO, THE FOLLOWING ACTIVITIES:

(a) TRANSFER OF MANUFACTURING SPECIFICATIONS AND DRAWINGS TO THE SELECTED FOUNDRIES AND MACHINE SHOPS ALONG WITH DETAILED CONSULTATION AND EXPLANATION OF SPECIFICATIONS AND DRAWINGS WITH THE INVOLVED COMPANY PERSONNEL.

(b) SUPERVISION OF THE MANUFACTURE OF THE PUMP PATTERN WILL BE PROVIDED. THIS IS A CRITICAL ELEMENT OF THE PUMP MANUFACTURING PROCESS AND INSPECTION AND ACCEPTANCE OF THE FINISHED PATTERNS IS AN INTEGRAL PART OF THIS ACTIVITY.

(c) CONTINUING TECHNICAL ASSISTANCE WILL BE PROVIDED TO THE COMPANIES IN THE MANUFACTURING PROCESS TO OVERCOME PRODUCTION PROBLEMS AND ADAPTATION OR MODIFICATION TO INSURE THAT ACCEPTABLE PUMPS AND OTHER COMMODITIES RESULT.

(d) INSPECTION OF THE FINISHED PUMPS, ROBOVALVES, ROBOSCREENS AND MODIFIED PUMPS CYLINDERS WILL BE CONDUCTED BEFORE ACCEPTANCE OF THE PRODUCTS. EACH INDIVIDUAL PUMP WILL BE TESTED FOR LEAKS, PLACEMENT OF VALVES, ETC. SUBSTANDARD PRODUCTS WILL NOT BE ACCEPTED UNTIL CORRECTIVE ACTIONS HAVE BEEN TAKEN BY THE MANUFACTURERS.

(4.) PROVIDE TECHNICAL PLANS AND SPECIFICATIONS FOR ADAPTATION OF CHLORINATOR TO HAND PUMPS IN TEST AREAS AS PROPOSED BY REF (E).

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OTD 25

February 12, 1981

Rural Sanitation Manpower Development (RSMD): Workshop
and Program Assistance--Indonesia

The Government of Indonesia, with AID support, is in final planning stages of its Rural Sanitation Manpower Development (RSMD) Project, and has requested WASH guidance on the project and a training workshop starting February 24, 1981. The first of two WASH consultants left for Jakarta on February 16. Seventy work days and two round trips to Jakarta over a three month period are authorized for this OTD.

The initial scope of work for this OTD includes:

1. Presentation at workshop of latest water supply and sanitation appropriate technology (AT) alternatives. This will include the development and adaptation of simple low-cost effective WS&S technologies. Content of workshop will guide AT development programs in ten Indonesian regional training centers.
2. Formulation and servicing of plans for technological research and development.
3. Consultation with groups or individuals engaged in work related to development of systems and practices for effective wide-scale application of appropriate techniques and methods.
4. Consultation on incorporating recent techniques and methods into the training of sanitation personnel, specifically for the training of trainers.
5. Consultation on curriculum development for in-service training and/or retraining of existing sanitation personnel.
6. Review and comment on approximately 12 proposals for research already submitted by RSMD staff in Regional Centers.
7. Input on planning and conduct of future workshops, conferences and seminars on water supply and sanitation.
8. Consultation and advice on integration of elements of the University of Hawaii curricula and educational materials, as requested by the Government of Indonesia staff.

The WASH consultants sent to Indonesia have broad up-to-date knowledge of practical water supply and sanitation (AT) appropriate technology alternatives, and are experienced in planning, designing, and implementing programs of rural water supply and sanitation in LDC's in Asia. They also have direct experience in training of basic water supply and sanitation workers and are familiar with methodologies for competency-based or problem-oriented training.

The initial visit to Indonesia was planned for three weeks duration.

For further information, contact Dr. Ray Isely.

JEB/WASH/CIC
3/3/81

WATER AND SANITATION FOR HEALTH PROJECT

ORDER OF TECHNICAL DIRECTION #25

February 12, 1981

TO: WASH Contract Project Director
Mr. James Arbuthnot, P.E.

FROM: AID WASH Project Manager *qjw*
Mr. Victor W. R. Wehman, Jr., P.E., R.S.

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of
Work for USAID/Indonesia

REFERENCES: A) Jakarta 1280
B) State 24630
C) Jakarta 1837

1. WASH contractor requested to provide technical assistance to USAID/
Jakarta as per Ref A scope of work and per responses to Ref B in Ref C.
2. WASH contractor/subcontractor/consultants authorized to expend up to
70 person days effort over a three (3) month period to accomplish this
technical assistance effort.
3. Contractor to provide final report to mission on scope of work
elements before leaving mission. Contractor to make arrangement for local
secretary and typewriter to accomplish final report on project elements.
4. Contractor to coordinate directly with USAID/Jakarta (Mr. Phil Smart
or Mr. Bob Pratt) in Health Office of Mission. Make sure Dr. Curlin
(ASIA/TR/HNP), ASIA/(PD) Indonesia Officer and Indonesia AID Desk Officer
aware of this technical assistance effort and of travel itineraries and
clearances of all consultant staff.
5. Contractor authorized up to 50 days of per diem for this effort.
6. Contractor authorized two (2) RT travel from consultants home base
through Washington to Jakarta, return to Washington for debriefing and
return to their home base.

OTD #25
Feb 12. 1981

7. Contractor should insure a timely and thorough debriefing for ASIA Bureau and DS/HEA personnel upon return to Washington, D.C.
8. Contractor authorized to pay local expenses in Jakarta for local hire of secretary, intrepeter, xeroxing, car rental or other miscellaneous expenses.
9. Contractor authorized four (4) RT within Indonesia to RSMD sites if required from Jakarta to site and return to Jakarta if necessary to carry out mission.
10. Mission should be contacted immediately and technical assistance initiated as soon as possible and convenient to mission/GOI.
11. Appreciate your prompt attention to this matter. Good luck.

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PAGE 01
ACTION AID-35

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 ACTION OFFICE ASSP-02
 INFO ASEM-01 ASDP-02 ASPD-03 ASTR-01 AADS-01 CMGT-02 CTR-02
 DSRD-02 CH8-01 RELO-01 MAST-01 /019 AI 1126

 INFO OCT-01 /036 W

R 260653Z JAN 81
FM AMEMBASSY JAKARTA
TO SECSTATE WASHDC 1531

UNCLAS JAKARTA 01280

AIDAC

EO 12065: N/A

SUBJECT: RSMD PROJECT REQUEST FOR WASH CONSULTANT.

1. RSMD PROJECT IN FINAL STAGES OF SOFTWARE AND HARDWARE DEVELOPMENT. IMPLEMENTING AGENCY HAS DECIDED THAT CAPABILITY FOR APPROPRIATE TECHNOLOGY DEVELOPMENT AND INFORMATION PRODUCTION AND DISSEMINATION IS NEEDED TO ROUND OUT MANPOWER DEVELOPMENT CAPABILITY. MISSION HAS AGREED IN PRINCIPLE TO PLAN INCLUDING A TECHNOLOGY DEVELOPMENT AND CURRICULUM REVIEW WORKSHOP TO BE HELD IN EAST JAVA FEBRUARY 27 TO MARCH 7.

2. GOI REQUESTS ONE OR TWO CONSULTANTS WITH BROAD KNOWLEDGE IN RURAL ENVIRONMENTAL SANITATION (ES) TECHNOLOGY AND ES BROCHURE PRODUCTION WITH EXPERIENCE IN TROPICAL LDC'S PREFERABLY IN ASIA.

3. PLEASE ADVISE IF WASH COULD PROVIDE SUCH TA AT NO COST TO PROJECT OR MISSION. MASTERS

*Transferred to
Howard Keller
ASIA/TR 1/2*

UNCLASSIFIED



OTD 28

February 19, 1981

Representative of DS/HEA and WASH at Conference of World Federation of Public Health Associations, Calcutta, India, 23-26 February 1981.

In addition to attending the Conference in Calcutta, Dr. Raymond Isely was also to visit USAID/Bangladesh, USAID/Nepal and USAID/Thailand to discuss WASH collaborative modes and procedures. However, Mission authorization to visit the latter two countries was not granted.

Dr. Isely's purpose in Calcutta was to set-up and man an AID/WASH display, participate in the conference as an international health expert, as appropriate and requested, and explain the WASH Project to all concerned. A folding graphic and photographic display of WASH functions was prepared and sample AID Robovalves and Roboscreens were taken for exhibition, along with relevant descriptive information for distribution. Dr. Isely was able to schedule a visit to the Environmental Research Institute at Nagpur, India, which will be commented upon in his trip report.

Up to twenty-two days over a two month period were authorized for this OTD. APHA provided round trip air travel to Calcutta for Dr. Isely.

For further information, contact Dr. Ray Isely.

JEB/WASH/CIC

3/4/81

MEMORANDUM

February 19, 1981

Water And Sanitation for Health Project
Order of Technical Direction (OTD) Number 28

TO: Mr. James Arbuthnot, P.E.
WASH Contract Project Director

FROM: DS/HEA, Victor W.R. Wehman, Jr., P.E., R.S. *9/WW*
AID WASH Project Manager

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of Work
for DS/HEA

Refs: A) Conference of World Federation of Public Health Associations,
Calcutta, India, 23-26 Feb. 81 brochures and agendas
B) WASH cables 3 Feb. 81 to USAID/Bangladesh, USAID/Nepal and
USAID/Thailand
C) Follow-up WASH cables to B above 17 Feb. 81
D) Dacca 00953

1. WASH contractor requested to provide technical assistance to DS/HEA to attend and represent WASH at Ref. A conference 23-26 Feb 81. in Calcutta, India and to make catalytic, investigatory, visits to ICDDRB and USAID in Dacca, to AIT and USAID in Bangkok and to USAID/Nepal, during period 23 Feb. to o/a 7 March 81.
2. Contractor's Associate Director Isely authorized to expend up to 22 person days of effort over a two month period to prepare for and accomplish this technical assistance effort.
3. Dr. Isely to set up and man an AID WASH display/exhibit at Calcutta conference during appropriate times and to participate in conference activities as an international health expert, as appropriate and requested. Contractor to take 300 WASH brochures and display materials for exhibit, as well as prototype examples of Robovalve (both types) plus Roboscreen (broached and extruded) plus at least 10 copies each of Robovalve, Robometer and Roboscreen and AID handpump reports (these are for use and reference not for giving away at conference).
4. Contractor's Associate Director's salary during the entire trip will be paid by WASH.
5. Contractor authorized to charge WASH project for difference in international travel between APHA round trip ticket from Washington to Calcutta to Washington, and that of actual international ticket needed to move Dr. Isely from Washington to Calcutta, to Nepal, to Dacca, to Bangkok, to Washington, as appropriate.
6. Dr. Isely will keep and develop a detailed debriefing document identifying activities, personal contacts, topics of discussions, and recommendations for follow-up for each of the 4 distinct country locations.

7. A final trip report will be due within 30 days of arrival back in the U.S.
8. Contractor shall only travel to those locations where travel concurrence has been received by phone or cable from responsible AID officials in those respective USAIDs.
9. Up to 15 international per diem days is hereby authorized for the trip.
10. Contractor should take WASH 35 mm camera, plus film to take appropriate slides of various exhibits, conference proceedings, ICDDRB and AIT facilities as appropriate for debriefing purposes.
11. Contractor authorized miscellaneous local travel and in-country expenses as necessary to carry out mission.
12. Technical assistance should be initiated as soon as possible. Contractor should notify and inform AID desk officers of Isely ETA's as soon as they are known for sure. Isely should send cables from field to AID WASH to let them know exact itinerary during trip.
13. Appreciate your prompt attention to this matter.

DS/HEA:V.Wehrman: ja:2/19/81



OTD #38

April 8 & 21, 1981

Further Development of Rural Water and
Sanitation Project - Thailand.

WASH pre-project design work assistance is being provided for preliminary assessment of technical and economic feasibility of providing clean water to small communities or rural population concentrations of 2,000 population or less using piped water systems.

Appropriate non-piped alternative supply systems will also be identified and assessed for certain areas of north-east Thailand. Scopes of work for design and feasibility studies of above and related matters are being prepared. One WASH consultant is a specialist in rural water supply technology and operation and maintenance; the other is a specialist in infrastructure organization, financing, economics and feasibility studies.

For further information, contact Mr. J. Arbuthnot.

The OTD authorizes a maximum of 70 person days during the period April - June 1981. The consultants are authorized to spend up to 28 days each during this period. The total effort includes a maximum of 63 international per diem days, one round-trip from WASH headquarters to Bangkok with stopover at WHO/Geneva and USAID/Manila, one round trip from Singapore to Bangkok.

JEB/WASH/CIC
4/30/81

17 Apr 1981

Water and Sanitation for Health (WASH) Project
Amendment to OTD No. 38

TO: Victor W.R. Wehman, Jr., P.E., R.S. AID WASH Manager
FROM: Dennis B. Warner, ^{D. Warner} Ph.D. P.E. Acting WASH Project Director
SUBJECT: Amendment to OTD No. 38 to authorize CDM Boston
to develop design criteria for small water treatment systems.
REFS: OTD No. 38 (8 April 1981)

According to an April 16 telex from Mr. James Arbuthnot, who is on a WASH field trip to Thailand under OTD No. 38, the USAID Mission in Thailand has cabled DS/HEA for a change in the scope of work of the above OTD. In line with the above change, Mr Arbuthnot requests that DS/HEA authorize CDM/Boston two man days to prepare design materials on small water treatment systems.

It is suggested that the amendment read as follows:

"Amendment 1: The WASH contractor is authorized to provide additional two man days of work through CDM/Boston to review design criteria for small water treatment systems".

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WESTERN UNION INTERNATIONAL
ARLINGTON VIRGINIA. USA

WARNER AID THAILAND CABLING WASHINGTON TODAY ASKING CHANGE SCOPE
WORK IN LINE WITH CABLE BANGKOK 55702 OF 18 NOV 18. NEW SCOPE
INCLUDE REQUEST WE REVIEW DESIGNS FOR WATER TREATMENT WORKS PRE-
PARED BY TAMS . ALSO INCLUDES REQUEST REVIEW TECHNICAL FEASIBILITY
WHICH REQUIRES ESTIMATES OF COST OF WATER TREATMENT WORKS SMALLER
THAN ANY TAMS DESIGN. WASH TEAM THEREFORE NEEDS DESIGN CRITERIA WATER
TREATMENT PREPARED BY SPECIALISTS IN COM BOSTON OFFICE SO LOCAL
ENGINEERS CAN ESTIMATE COSTS TREATMENT WORKS FOR OUR FEASIBILITY
STUDY. THEREFORE NOW WISH OFFICE HEALTH AUTHORIZE COM BOSTON TWO MAN
DAYS WORK PREPARE DESIGN CRITERIA AND TELEX THEM US BANGKOK IMMEDIATE
LY. ALSO YOU ASK BOSTON SPECIFIC QUESTION RELATING PROPOSED USE SLOW
SAND FILTERS TREAT MUDDY WATER AFTER PLAIN SEDIMENTATION WITHOUT
COAGULATION. CAN PLAIN SEDIMENTATION WITHOUT COAGULATION BRING
TORBIDITY DOWN TO THIRTY PPM WHICH EYE ESTIMATE MAXIMUM FEASIBLE
FOR CONTINUOUS APPLICATION SLOW SAND FILTER QUESTION

SECOND ITEM ASK WASH LIBRARY SEARCH FOR ARTICLE WRITTEN BY ROBERT N
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ITARY ENGINEERING SECTION DIVISION OF ENVIRONMENTAL HEALTH WHO
GENEVA AT TIME. MAYBE IRC OR WHO GENEVA COULD GIVE REFERENCE
ALLOWING US TO FIND ARTICLE IN BANGKOK LIBRARY

JAMES ARBUTHNOT
ROOM 981

CORRECTION: CABLE BANGKOK 55702 OF 18 NOV 80. NEW SCOPE -----

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Western Union International, Inc.
Telex International

Water and Sanitation for Health (WASH) Project
Order of Technical Direction (OTD) No. 38

April 8, 1981

TO: Mr. James Arbuthnot, P.E.
AID WASH Contract Project Director

FROM: Mr. Victor W.R. Wehman, Jr., P.E., R.S. *VWW*
AID WASH Project Manager

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of
Work to USAID/Thailand (Development of Rural Water Supply Project)

REFS: STATE 280469 (20 Oct 80), BANGKOK 55702 (18 Nov 80); TELCOM
(E. McJunkin/D. Oot), Attached Bibliography.

1. WASH contractor/subcontractor/consultants requested to provide two senior rural water supply specialists to assist USAID/Thailand in further development of project described in PID "Rural Water and Sanitation Project" dated September 12, 1980.

2. WASH contractor/subcontractor/consultants authorized to expend up to 28 person days, each for 2 individuals during the period April - June 1981 with a total level of effort authorized of 65 days. One consultant to be a specialist in rural water supply technology, operation, and maintenance. Other consultant to be a specialist in infrastructure organization, financing, economics, and feasibility studies.

Up to 63 person days of international per diem authorized.

3. Consultant tasks include (subject to modification by mission with concurrence from AID WASH Project Manager).

A. Consult with USAID/Thailand/Project Chairman and Committee on its needs for further development of project.

B. Recommend appropriate technologies and levels of service for project beneficiaries, taking into account long-term operation and maintenance, recurrent financing, replicability, institutional infrastructure, and AID Handbook 3 requirements.

C. Review national plans in sector and coordinate with other donors, particularly AsDB, IBRD, UNICEF, and UNDP.

D. Evaluate appropriate institutional arrangements.

E. Develop appropriate cost estimates for project alternatives.

F. Draft terms of reference and job descriptions for project design team to prepare Project Paper (PP).

G. Confer with D. Jones, U.S.G.S. groundwater hydrologist on temporary assignment with mission.

H. Visit the Environmental Science Information Center (ENSIC) at the Asian Institute of Technology (AIT) to review their resources available to AID and WASH and possible cooperative activities with WASH/CIC.

(
1. Such other tasks as may be requested by the Mission within the level of effort Scope of Work. Preparation of written report to Mission.

4. One round trip authorized for one consultant from WASH headquarters to Bangkok including two stopovers:

A. WHO/Geneva to confer with Somnuek Unakul et al. in regard to subject project.

B. USAID/Manila including Baranguay Water Supply Project II in field. (Report to be filed on applicability of Baranguay concepts to Thailand). Consultant authorized also to visit Asian Development Bank. Consultant authorized 3 days per diem in Philippines and miscellaneous expenses

5. A. One round trip authorized from Singapore to Bangkok for second consultant.

B. Field travel in Thailand is authorized. Vehicle rental/chauffeur hire is authorized as necessary under Scope of Work.

6. Local hire of translators, socialologists, typists, draftsmen, and cost estimators is authorized.

7. Seven-day work-week is authorized if necessary and appropriate. WASH Director will be team leader.

8. WASH contractor will hold formal debriefing upon return from field.

9. Ensure ASIA/TR/HNP (H. Keller) and ASIA/PD (Hasan Hasan) and AID/Thailand Desk Officer (R. Nachtrieb) are fully coordinated with and informed throughout effort as per progress.

10. Mission and desk officers should be contacted immediately and technical assistance initiated as soon as possible or convenient to missions.

11. Appreciate your prompt attention to this matter. Good luck.

BIBLIOGRAPHY

- 1 Cable State 280469 of Oct. 80
- 2 Cable Bangkok 04425 of 22 Jan. 81
- 3 Cable State 014879 of 20 Jan. 81
- 4 Cable Bangkok 55702 of 18 Nov. 80
- 5 Extract, Section D, Rural Water Supply and Sanitation from UNICEF document - Recommendations for UNICEF Assistance to Thailand, 1979-1982
- 6 AID Project Impact Evaluation Report No. 3, Potable Water Project in Rural Thailand May 80
- 7 Community Potable Water Project Thailand, Tippetts-Abbett-McCart Stratton, Monthly Report Oct. 1967
- 8 Ard Well Drilling Project Study, Prepared by J.W. Neave and S.J. Bargnesi, April 1971
- 9 Project Identification Document, Rural Water and Sanitation Project USAID/Thailand, September 1980
- 10 Rapid Assessment Report, International Drinking Water Supply and Sanitation Decade, Bangkok, November 1978
- 11 Preliminary Country Report, International Drinking Water Supply Sanitation Decade, Bangkok, March 1980
- 12 Project Document for Rural Piped Water Supply, Bangkok, March 1980
- 13 Staff Appraisal Report, Thailand, Provincial Water Supply Project May 1980
- 14 End-Of Tour-Report, Domestic Water for Rural Thailand, Prepared by John W. Neave, Bangkok, June 1971
- 15 Appraisal of a Population Project, Thailand, January 1978, World Bank
- 16 Strategy and Guidelines for Improvements in Sanitation and Water Supply in Selected Areas of Thailand, Report prepared by Charles Pineo, Rifat Barokas and Max Batavia, November 1979.
- 17 USAID/Thailand Health, Population, and Nutrition Needs Assessment, May 1980
- 18 Interim Report on Drinking Water Protected Dug-Well Programme, Thailand, Prepared by Boleslaw Jan Kukielka, Bangkok, December 1980

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Department of State

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PAGE 01 BANGKO 55702 181717Z
ACTION AID-35

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ACTION OFFICE ASTR-01
INFO AAAS-01 ASEM-01 ASPT-02 ASOP-02 PPCE-01 POPR-01 PPPB-03
PPEA-01 STA-10 ASPO-03 AROS-01 CMGT-02 CTR-02 OSRE-01
ENGR-02 C-3-01 NEV-09 RELO-01 RAST-01 /046 AI 4

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UNCLAS BANGKOK 55702

AIDAC

FOR ASIA/TR/HFN

FOR OS/NEA

EO 12065: NA
SUBJ: WATER AND SANITATION: REQUEST FOR TECHNICAL
- ASSISTANCE

REF STATE 278393

1. USAID DELIGHTED TO LEARN OF TECHNICAL ASSISTANCE NOW AVAILABLE TO MISSION UNDER OSA FINANCED WATER AND SANITATION FOR HEALTH (WASH) PROJECT. DURING RECENT VISIT OF EUGENE MCJUNKIN, USAID HAD OPPORTUNITY TO DISCUSS OUR SPECIFIC NEEDS RELATED TO DEVELOPMENT OF RURAL WATER AND SANITATION PROJECT FOR WHICH PID WAS RECENTLY APPROVED (STATE 230452).

2. BASED ON EXTENSIVE DISCUSSIONS WITH MCJUNKIN, USAID WOULD LIKE TO REQUEST ASSISTANCE FROM WASH, FOR FOLLOWING PRE-PROJECT PLANNING ACTIVITIES:

- (A) PRELIMINARY REVIEW OF TAMS DESIGN BY WASH CONSULTANTS IN WASHINGTON TO ASSESS DESIGN APPROPRIATENESS AND IDENTIFY POTENTIAL COST-SAVING MODIFICATIONS. MCJUNKIN SUGGESTED USE OF THIS "BRAINSTORMING" APPROACH PRIOR TO MAKING FIELD VISIT. USAID WILL TRANSMIT MASTER SET OF TAMS DRAWINGS AND SPECIFICATIONS TO MCJUNKIN TO BE USED IN THIS EXERCISE. IN CONJUNCTION WITH THIS, WASH STAFF ARE REQUESTED TO ASSEMBLE INFORMATION ON APPROPRIATE LOW-COST ALTERNATIVES TO TAMS DESIGN.

- (B) FOLLOWING THIS REVIEW, USAID REQUESTS SITE VISIT BY WATER RESOURCES ENGINEER AND ECONOMIST KNOWLEDGEABLE ABOUT RURAL WATER AND SANITATION PROGRAMS. USING RESULTS OF TAMS REVIEW, ENGINEER WILL INVESTIGATE TECHNICAL AND FINANCIAL FEASIBILITY MODIFIED TAMS DESIGN AS WELL AS OTHER POTENTIAL SYSTEM DESIGNS, BOTH PIPED AND UNPIPED. ECONOMIST WILL CONDUCT PRELIMINARY ANALYSIS OF FINANCIAL AND ECONOMIC VIABILITY OF PROJECT, TAKING INTO ACCOUNT SUCH FACTORS AS POTENTIAL FOR REPLICATION, NEED TO REACH LOW-INCOME PERSONS, AND COMMUNITY ABILITY TO FINANCE SUCH SYSTEMS, BOTH IN TERMS OF CAPITAL AND OPERATIONAL COSTS. ECONOMIST WILL WORK WITH ENGINEER IN COSTING OUT AND COMPARING COST-EFFECTIVENESS OF SYSTEM ALTERNATIVES IDENTIFIED BY THE ENGINEER.

3. USAID ANTICIPATES ITT-PERSON TEAM WILL BE NEEDED FOR 3-4 WEEKS BEGINNING MID-JANUARY, 1984. REQUEST SERVICES OF DENNIS VARHER TO CARRY OUT ECONOMIC

ANALYSIS.

4. DEPENDING UPON THE FINDINGS OF THE AID/W "BRAINSTORMING" AND THE ON-SITE VISIT OF THE WASH-PROVIDED ENGINEER, USAID MAY REQUEST WASH ASSISTANCE IN PROVIDING ADDITIONAL, SPECIALIZED EXPERTISE IN SUCH AREAS AS MATERIAL LOGISTICS/SUPPLY MANAGEMENT, EVALUATING/ENHANCING LOCAL INDUSTRY CAPABILITY IN PUMP OR PIPED SYSTEM FABRICATION AND INSTALLATION, AND MAINTENANCE/OPERATIONS SYSTEMS. REQUEST WASH KEEP THESE POSSIBILITIES IN MIND IN YOUR RESPONSE. WE ANTICIPATE THAT ANY CIVIL WORKS DESIGN EXPERTISE WILL BE AVAILABLE LOCALLY AS NECESSARY.

5. USAID TENTATIVELY REQUESTS FOLLOW-UP VISIT BY ENGINEER/ECONOMIST TEAM IN MARCH/APRIL TO ASSIST IN FINAL DESIGN WORK AND PREPARATION OF PROJECT PAPER. ALL PRELIMINARY STUDIES/ANALYSES WILL HAVE BEEN COMPLETED BY THAT TIME. USAID ANTICIPATES TEAM WILL BE NEEDED FOR FOUR TO SIX WEEKS.

6. REQUEST AID/W COMMENTS/CONCURRENCE PROPOSED WORKSCOPE AND TIMING OF CONSULTATIONS. LEVIN



OTD 40

May 14, 1981

AID Handpump Manufacture - Philippines

As part of the Barangay Water Program, AID/Philippines has requested technical assistance for local reproduction of the AID handpump. The scope of the work includes: selection of manufacturers of handpumps and deep well cylinders; technical assistance to the selected manufacturers; preparation of a Handpump Operations Manual and a Well Design and Construction Manual; and participation in training activities.

One or more persons with extensive experience in handpumps manufacturing, well drilling and training in developing countries will be required.

For further information, contact Dr. D. Warner.

This OTD authorizes a maximum of 215 person days over a six month period, including six international round trips.

JEB/CIC
May 15, 1981

May 14, 1981

Water and Sanitation for Health (WASH) Project
Order of Technical Direction (OTD) No. 40

TO: Mr. James Arbuthnot, P.E.
WASH Contract Project Director

FROM: Mr. Victor W.R. Wehman, Jr., P.E., R. *VW*
AID WASH Project Manager

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of Work
for USAID/Philippines (Manila)

REFS: A) MANILA 1775, 22 Jan. 81
B) MANILA 6628, 23 Mar. 81

1. WASH contractor requested to provide technical assistance to USAID/Philippines as per Ref. A (modified in this OTD). Contractor to provide technical assistance to accomplish para. 3 under Scope of Work Ref. A for component 1 and component 2. Component 3 is not authorized at this time under this OTD.
2. WASH contractor/subcontractor/consultants authorized to expend up to 215 person days of effort over a 6 month period to accomplish this technical assistance effort.
3. Contractor authorized up to 200 person days of international per diem to accomplish this effort.
4. Contractor to coordinate with ASIA/PD (Mr. Nussbaum), ASIA/TR/HN (Mr. Keller), AID/ASIA desk officer and should provide copies of OTD No. 40 along with periodic progress reports as requested by DS/HEA or ASIA Bureau.
5. Effort is to be an intensive one with technical assistance to 2 or 3 handpump manufacturers in the Philippines in 4 to 6 month period rather than normal 10 to 12 month period of past AID handpump program country activities. Expect it will be necessary to staff at least one full-time person to Philippines to work for 5 to 6 months continuously, supplemented by other specialty and management personnel as necessary. (See component 2 for example).
6. Contractor authorized to provide up to six (6) international round trips from consultants home-base through Washington to Philippines and return to home-base through Washington during life of OTD.
7. Contractor authorized up to 20 round-trip internal Philippines airline trips from Manila to ILO ILO or CEBU Islands to work with local manufacturers if necessary. Mission and DS/HEA may decide to work only with local manufacturers in Manila Metro Area as project proceeds.

8. Contractor authorized to obtain secretarial, graphics or reproduction services in Philippines as necessary to accomplish tasks. These services are in addition to the level of effort specified in para. 2 and para 3 above.
9. Contractor authorized to expend up to \$4,500 for the training materials for the development or printing/support services associated with item 3, component 1, line item E.
10. Contractor authorized to provide for car rental if necessary to facilitate effort. Mission is encouraged to provide mission vehicles, if available.
11. Contractor will take portable (Manual) typewriter for consultants use in the field.
12. Item 3 component 1 line B of Ref. A changed from "1000" to "300" two inch and "100" three inch deep well cylinders.
13. Item 3 component 1 line C last sentence changed to read "This will include the provision of drawings, patterns, replication of prototype handpumps, and the provision of continuous technical assistance through final acceptance by the WASH contractor of the 250 AID handpumps, the 300 two inch deep well cylinders and the 100 three inch deep well cylinders."
14. Contractor authorized up to a total of \$45,000 for the purchase of the patterns, molds and handpump and cylinder assemblies by subcontract from your subcontractor to local manufacturer(s) in the Philippines. No single purchase orders or sub-contracts with local manufacturers shall exceed \$20,000 in value.
15. Contractor is authorized to install and train locals in installation of up to 20 of the handpump systems in sites agreeable to and with the approval of AID mission liaison officer (Mr. Brady).
16. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract. Mission liaison has requested that they initial field vouchers being sent back from field to mission. This has been agreed to by DS/HEA project manager. However, the contractor must understand that this is a participatory arrangement between USAID/Philippines and DS/HEA and does not represent an approval or disapproval by AID of the services vouchered in the particular voucher by the field consultant. All official approvals, disapprovals or decisions to ask for audits or revouchering continue to be made by the project manager in DS/HEA. DS/HEA however welcomes the mission's interest in validating that services were actually provided.
17. Items 5 para. A, B. and C. of Ref. A apply. Items 5 para. D and E of Ref. A do not apply to WASH contracting mechanism. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.

18. Contractor report on overall progress of activity to be made in writing after each 40 person days of effort. Upon final acceptance of all locally manufactured equipment, the final report is due within 30 days to mission.

19. Mission should be contacted immediately and technical assistance initiated before the end of May 1981.

20. Appreciate your prompt attention to this matter. Good luck.

VWW:ja:5/14/81

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PAGE 01 MANILA 01775 01 OF 04 220751Z 060132 AID4983

MANILA 01775 01 OF 04 220751Z 050132 AID4983
ENTITLED, "HANDPUMP." IT WILL COVER A DISCUSSION OF
HANDPUMP INSTALLATION, MAINTENANCE AND REPAIR.

ACTION OFFICE DSNE-01
INFO AAAS-01 ASEM-01 ASPT-02 ASDP-02 ASPD-03 ASTR-01 AADS-01
DSPO-03 ENGR-02 CNR-01 RELO-01 MAST-01 /020 A4 722

E. PARTICIPATION AS PRINCIPAL RESOURCE SPEAKER IN A FIVE-DAY TRAINING SEMINAR FOR LOCAL GOVERNMENT WATERWORKS TECHNICIANS, THE BWP LOCAL ARCHITECTURAL AND ENGINEERING FIRM AND USAID ENGINEERING PERSONNEL. THE SEMINAR WILL UTILIZE THE MATERIALS PREPARED IN ITEM "D" OF THE SCOPE OF WORK AS THE BASIS FOR THE CURRICULUM AND WILL COVER HANDPUMP INSTALLATION, MAINTENANCE AND REPAIR.

INFO OCT-01 /036 V

-----054511 220752Z /34

R 220505Z JAN 81
FM AMEMBASSY MANILA
TO SECSTATE WASHDC 1872

- QUALIFICATIONS: THE QUALIFICATIONS FOR COMPONENT #1 OF THE SCOPE OF WORK ARE:

UNCLAS SECTION 01 OF 04 MANILA 01775

AIDAC

- CIVIL OR MECHANICAL ENGINEER WITH FIELD EXPERIENCE IN RURAL WATER PROGRAM HANDPUMP ACTIVITIES. IDEALLY, THE CANDIDATE FOR THIS ASPECT OF THE SCOPE OF WORK SHOULD ALSO HAVE EXPERIENCE WORKING WITH SUPPLIERS, MANUFACTURERS, AND FOUNDRIES IN THE REPRODUCTION OF HANDPUMPS.

PASS TO MR. GENE MCJUNKIN, DS/HEA/COMMUNITY WATER SUPPLY

E.O. 12065: N/A
SUBJECT: TECHNICAL ASSISTANCE - BARANGAY WATER PROGRAM

- MANPOWER REQUIREMENTS:

REF: (A) 88 STATE 324366, (B) 80 MANILA 25419

- ONE (1) TECHNICIAN WILL BE REQUIRED FOR A FIVE-MONTH PERIOD OF CONTINUOUS SERVICE IN THE PHILIPPINES. THIS PERSON WILL INITIATE THE WORK TO IDENTIFY SUPPLIERS AND MANUFACTURERS AND REMAIN IN THE PHILIPPINES FOR THE DURATION OF PERIOD REQUIRED TO - 1) DEVELOP FIFTY COPIES OF THE PROTOTYPE AID HANDPUMP AND ONE THOUSAND IMPROVED TWO-INCH PLASTIC CYLINDERS, 2) PREPARE THE APPROPRIATE SECTION FOR THE BWP OPERATIONAL MANUAL, AND 3) CONDUCT THE THREE TO FIVE DAY TRAINING SEMINAR ON HANDPUMP INSTALLATION, MAINTENANCE, MONITORING AND REPAIR.

1. SUMMARY:

THE MISSION HAS REQUESTED TECHNICAL ASSISTANCE FROM AID/W FOR THE LOCAL REPRODUCTION OF THE AID HANDPUMP.

COMPONENT #2 - (WELL DESIGN AND CONSTRUCTION)

WASHINGTON RECENTLY APPROVED SUCH ASSISTANCE. IT WILL BE FUNDED UNDER THE NEWLY AUTHORIZED WATER AND SANITATION FOR HEALTH PROJECT (WASH).

THIS CABLE OUTLINES A SCOPE OF WORK FOR SUCH ASSISTANCE, PROVIDES A BUDGET FOR SERVICES AND GOODS REQUIRED AND SUGGESTS OTHER PROGRAM AREAS FOR MUTUAL COOPERATION.
END SUMMARY.

2. MISSION AGREES THAT THE AVAILABILITY OF A BETTER HANDPUMP FOR VILLAGE WELLS IS A NECESSITY AND ACCEPTS ASSISTANCE OFFERED IN REFTEL A. SURVEYS AND MISSION OBSERVATION, HOWEVER, DEMONSTRATE THAT THE PROVISION OF IMPROVED HANDPUMP WITHOUT EQUAL ATTENTION TO SOURCE DEVELOPMENT, MAINTENANCE AND REPAIR WILL YIELD ONLY MARGINAL BENEFITS. THUS, THIS CABLE PROPOSES A SCOPE OF WORK WHICH ADDRESSES ALL THREE AREAS. IT CONSTITUTES A COMPLETE HANDPUMP PROGRAM.

3. SCOPE OF WORK:

COMPONENT #1 - (HANDPUMP DEVELOPMENT AND REPRODUCTION)

THE SCOPE OF WORK HAS THREE BASIC COMPONENTS. THIS WORK COMPONENT CONSISTS OF THE FOLLOWING TASKS:

A. SELECTION OF A SUITABLE MANUFACTURER FOR REPRODUCTION OF TWO HUNDRED FIFTY (250) AID HANDPUMPS.

B. SELECTION OF SUITABLE MANUFACTURERS AND SUPPLIERS FOR THE REPRODUCTION OF ONE THOUSAND (1000) IMPROVED 2" CYLINDERS FOR DEEP WELL HANDPUMPS.

C. PROVISION OF TECHNICAL ASSISTANCE TO BOTH OF THE ABOVE SUPPLIERS ON THE VARIOUS ASPECTS OF HANDPUMP AND CYLINDER REPRODUCTION. THIS WILL INCLUDE THE PROVISION OF DRAWINGS, PATTERNS, REPLICATION OF PROTOTYPE HANDPUMPS, AND THE PROVISION OF CONTINUOUS TECHNICAL ASSISTANCE UP TO THE DELIVERY OF THE FIRST FIFTY HANDPUMPS AND ALL ONE THOUSAND CYLINDERS.

D. PREPARATION OF A SECTION IN THE BWP OPERATIONS MANUAL

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PAGE 01 MANILA 01775 02 OF 04 220751Z 060133 AID4939
ACTION AID-35

MANILA 01775 02 OF 04 220751Z 060133 AID-

A DETAILED MANUAL FOR INSTALLATION, REPAIR AND MAINTENANCE OF WIND-DRIVEN SYSTEMS AND FACILITIES.

ACTION OFFICE DSME-01
INFO AAMS-01 ASEM-01 ASDP-02 ASPD-03 ASTR-01 AADS-01 ENGR-02
CH2-01 RELO-01 MAST-01 /015 A4 722

- QUALIFICATIONS: CIVIL OR MECHANICAL ENGINEER WITH EXPERIENCE IN THE USE OF WINDMILLS FOR PUMPING WATER. INDIVIDUAL SHOULD BE KNOWLEDGEABLE ON THE ENTIRE RANGE OF WINDMILL DESIGNS AND CAPABILITIES.

INFO OCT-01 /036 W
-----054519 220755Z /34

- MANPOWER REQUIREMENTS: ONE (1) ENGINEER AS DESCRIBED ABOVE WILL BE REQUIRED FOR A PERIOD OF ONE YEAR DURING THE SELECTION, DESIGN AND CONSTRUCTION PHASES FOR SUBPROJECTS FOLLOWED BY THE SERVICES OF A SIMILARLY QUALIFIED TECHNICIAN FOR A TWO-MONTH EVALUATION AT THE CONCLUSION OF THE FIRST YEAR OF SUBPROJECT OPERATION.

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FM AMEMBASSY MANILA
TO SECSTATE WASHDC 1873

UNCLAS SECTION 02 OF 04 MANILA 01775

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THIS COMPONENT CONSISTS OF THE FOLLOWING TASKS:

THE MISSION RECOMMENDS AGAINST BROKEN ASSIGNMENTS OF PERSONNEL CONSISTING OF TWO TO THREE-MONTH STINTS ALTERNATELY SPENT HERE AND IN THE U.S. PAST EXPERIENCE WITH SUCH ASSIGNMENTS PROVE THEM TO BE EXPENSIVE AND ONLY MARGINALLY PRODUCTIVE. THUS, EMPHASIS SHOULD BE PLACED ON RECRUITING FIRMS WILLING TO ASSIGN PERSONNEL FOR THE DURATION OF THE RESPECTIVE ASSIGNMENTS.

A. FAMILIARIZATION OF BWP WELL REQUIREMENTS BASED ON SURVEY OF EXISTING BWP PROJECTS.

4. BUDGET:
COMPONENT #1 - (MANOPUMP/CYLINDER - REPRODUCTION AND TRAINING)

B. DEVELOPMENT OF A SECTION FOR THE BARANGAY WATER OPERATIONS MANUAL ENTITLED "WELL DESIGN AND CONSTRUCTION." THIS SECTION OF THE MANUAL WILL PROVIDE THE DESIGN STANDARDS AND SPECIFICATIONS FOR ALL BWP WATER PROJECTS, BOTH POINT-SOURCE DEVELOPMENT FACILITIES AND FULL-FLEDGED PRODUCTION WELLS FOR WATER SYSTEMS.

| | |
|---|----------|
| - SALARIES AND WAGES (FIVE-MAN MONTHS AT \$3,000 PER MONTH) | \$15,000 |
| - OVERHEAD (100 PCT OF SALARIES & WAGES) | 15,000 |
| - DEFENSE BASE ACT INSURANCE | 1,350 |
| - IN-COUNTRY TRAVEL (15) ROUND TRIPS MANILA/CEBU/MANILA | 1,500 |

C. PROVISION OF TECHNICAL ASSISTANCE TO VARIOUS MANILA AND/OR CEBU BASED SUPPLIERS AND MANUFACTURERS FOR THE PROVISION OF PLASTIC WELL CASING AND WELL SCREENS.

D. PARTICIPATION AS A PRINCIPAL RESOURCE SPEAKER IN A SEMINAR FOR WATERWORKS TECHNICIANS, LOCAL AGE ENGINEERS, AND USAID TECHNICAL PERSONNEL ON WELL DESIGN AND CONSTRUCTION. THIS ASPECT OF TRAINING WILL INCLUDE WELL SITE SELECTION, MATERIALS, DESIGN STANDARDS, DRILLING, CASING, GRAVEL PACKING, GRouting, TESTING AND DISINFECTI Q WELLS.

- QUALIFICATIONS: HYDROGEOLOGIST/GEOHYDROLOGIST, CIVIL/MECHANICAL OR SANITARY ENGINEER WITH EXTENSIVE EXPERIENCE IN WELL DRILLING.

- MANPOWER REQUIREMENTS: ONE (1) PERSON FOR A FIVE-MONTH, CONTINUOUS PERIOD OF ASSIGNMENT IN THE PHILIPPINES.

COMPONENT #3 - (TRIAL PROJECT FOR TESTING WIND-POWERED COMMUNAL WATER SYSTEMS)

THIS COMPONENT OF THE SCCPE WILL CONSIST OF THE FOLLOWING:

A. IDENTIFICATION OF SITES FOR THE CONSTRUCTION OF SMALL, COMMUNAL WIND-POWERED WATER SYSTEMS AND FACILITIES.

B. IDENTIFICATION OF APPROPRIATE MATERIALS AND EQUIPMENT FOR WIND-DRIVEN SYSTEMS/FACILITIES.

C. PROCUREMENT OF MATERIALS AND EQUIPMENT.

D. PROVISION OF TECHNICAL ASSISTANCE IN THE DESIGN AND INSTALLATION OF THE SPECIFIED SYSTEMS AND FACILITIES.

E. PROVISION OF TECHNICAL ASSISTANCE DURING INITIAL OPERATING PERIOD OF SYSTEMS AND FACILITIES.

F. CONDUCT OF AN EVALUATION OF THE SYSTEMS AT THE END OF THE FIRST YEAR OF OPERATION AND PREPARATION OF RECOMMENDATIONS FOR REMEDIAL ACTION OR FURTHER EXPANSION OF WIND-POWERED WATER PUMPING PROJECTS. FURTHER MODIFICATION OR EXPANSION OF THE PROJECT WILL REQUIRE THE PREPARATION OF

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TELEGRAM

PAGE 01 MANILA 01775 03 OF 04 220752Z 050134 AID4992
ACTION AID-35

MANILA 01775 03 OF 04 220752Z

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ACTION OFFICE DCHE-01
INFO AAAS-01 AGEN-01 ASPT-02 ASDP-02 ASPD-03 ASTR-01 AADS-01
DSPO-03 ENGR-02 CH8-01 RELO-01 MAST-01 /020 A4 722

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FM AMEMBASSY MANILA
TO SECSTATE WASHDC 1874

UNCLAS SECTION 03 OF 04 MANILA 01775

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- INTERNATIONAL TRAVEL (1 ROUND TRIP) 2,000
- PER DIEM (FIVE MONTHS AT \$45 PER DAY) 6,975
- EQUIPMENT:
- PUMPUPS - \$125/UNIT X 250 UNITS 31,250
- CYLINDERS - \$30/UNIT X 1000 UNITS 30,000
- REPLACEMENT PARTS FOR CYLINDERS 3,000
- PRINTING/SECRETARIAL SERVICES
- MANUALS AND TRAINING MATERIALS 3,000
- TRAINING (PARTICIPANT COSTS) 4,000
- TOTAL COST FOR COMPONENT #1 \$117,075

COMPONENT #11 - (WELL DEVELOPMENT/LOCAL PRODUCTION
OF WELL SCREENS AND TRAINING)

- SALARIES AND WAGES (FIVE MAN-MONTHS
AT \$3,000/MONTH) 15,000
- OVERHEAD (100 PCT OF SALARIES & WAGES) 15,000
- IN-COUNTRY TRAVEL 2,000
- INTERNATIONAL TRAVEL (1 ROUND TRIP
USA/MANILA/USA) 2,000
- PER DIEM (5 MONTHS AT \$45 PER DAY) 6,975
- MATERIALS (MANUFACTURING & PROCUREMENT
OF WELL CASING) 25,000
- PRINTING (MANUALS & TRAINING MATERIALS) 3,000
- TOTAL COST FOR COMPONENT #11 \$72,325

COMPONENT #111 - (PILOT FOR WIND-DRIVEN COMMUNAL WATER
SYSTEMS AND EVALUATION)

- PHASE 1:
- SALARIES & WAGES (12 MOS. X \$3000/MO.) 36,000
- OVERHEAD (100 PCT OF SALARIES & WAGES) 36,000
- DEFENSE BASE ACT INSURANCE 3,240
- IN-COUNTRY TRAVEL 3,500
- INTERNATIONAL TRAVEL (1 ROUND TRIP
USA/MANILA/USA) 2,000
- PER DIEM (35 PCT OF WORK OUTSIDE MANILA) 4,000

- HOUSING AND UTILITIES 12,000
- EQUIPMENT (PURCHASE OF LOCALLY AVAILABLE
WINDMILLS) 24,000
- PRINTING/SECRETARIAL SERVICES
(REPORTS AND MANUALS) 3,000
- TOTAL PHASE 1 COMPONENT #111 \$125,740
- PHASE 2 (EVALUATION OF PHASE 1 SUBPROJECTS):

AN EVALUATION IS PROPOSED TO TAKE PLACE AFTER WIND-DRIVEN
COMMUNAL WATER SYSTEMS HAVE BEEN OPERATIONAL FOR ONE YEAR.
ITS FINDINGS SHOULD SUGGEST A COURSE OF ACTION TO MODIFY
OR EXPAND THE PROGRAM (OR BOTH) AND SIGNAL OPPORTUNITIES
FOR THE USE OF OTHER NON-CONVECTIONAL SOURCES OF ENERGY
FOR PUMPING WATER, PARTICULARLY OF ADDITIONAL INTEREST
ARE SMALL SOLUC ELECTRIC PUMPS UTILIZING SOLAR VOLTALIC
CELLS.

EVALUATION:

- SALARIES AND WAGES (2 MONTHS AT \$3500/MO) 7,000
- OVERHEAD (100 PCT OF SALARIES & WAGES) 7,000
- IN-COUNTRY TRAVEL (EACH OF THE PILOT
AREAS 1-1/2 TIMES) 1,000
- INTERNATIONAL TRAVEL (1 ROUND TRIP
USA/MANILA/USA) 2,500
- PER DIEM (60) DAYS AT \$50/DAY 3,000
- PRINTING & SECRETARIAL SERVICES
(REPORTS, MANUALS) 2,000
- TOTAL PHASE 2 COMPONENT #111 \$22,500

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TELEGRAM

PAGE 01
ACTION AID-35

MANILA 01775 04 OF 04 220751Z

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MANILA 01775 04 OF 04 220751Z

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INFO AAAS-01 ASEM-01 ASPT-02 ASOP-02 ASPO-03 ASTR-01 AADS-01
OSPO-03 ENGR-02 CHS-01 RELO-01 MAST-01 /020 A4 722

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FM AMEMBASSY MANILA
TO SECSTATE WASHDC 1875

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- TOTAL BUDGET:

| | |
|-----------------|-----------|
| - COMPONENT I | \$117,075 |
| - COMPONENT II | 72,325 |
| - COMPONENT III | |
| - PHASE 1 | 125,740 |
| - PHASE 2 | 22,500 |
| GRAND TOTAL | \$337,140 |

5. ADMINISTRATIVE AND SUPERVISORY ARRANGEMENTS:

- A.** THE CONTRACTORS WILL WORK CLOSELY WITH USAID AND PROVIDE TECHNICAL ADVICE TO LOCAL MANUFACTURERS, AND BOTH LOCAL AND NATIONAL GOVERNMENT OFFICIALS. THEY WILL WORK UNDER THE GENERAL SUPERVISION OF THE CHIEF OF THE MISSION'S OFFICE OF CAPITAL DEVELOPMENT AND ENGINEERING.
- B.** DAY-TO-DAY SUPERVISION WILL BE PROVIDED BY THE GOP'S PROJECT DIRECTOR FOR THE BARANGAY WATER PROJECT AND HIS USAID COUNTERPART. OFFICE SPACE AND FURNITURE WILL BE PROVIDED BY THE BARANGAY WATER PROGRAM IN THE MINISTRY OF LOCAL GOVERNMENT AND COMMUNITY DEVELOPMENT.
- C.S.** ADMINISTRATIVE, SECRETARIAL SERVICES AND TRAVEL ARRANGEMENTS WITHIN COUNTRY WILL BE PROVIDED BY THE USAID/BWP STAFF AND OCCASIONAL PART-TIME SECRETARIES. SALARIES FOR THE LATTER ARE INCLUDED IN THE BUDGET PROVIDED.
- D.A.** TO ELIMINATE COSTLY MANAGEMENT SUPPORT EXPENSES, VOUCHERS CAN BE PREPARED AND PAID BY THE MISSION CHARGEABLE TO THE APPROPRIATE ALLOTMENT AND APPROPRIATION SYMBOLS. ALTERNATIVELY, VOUCHERS CAN BE PREPARED IN MANILA AND POUCHED TO AID/W OR THE DESIGNATED IQC.
- E.** ASSUMING THAT QUALIFIED INDIVIDUALS ARE IDENTIFIED TO PERFORM THE RESPECTIVE SCOPES OF WORK, NO ADMINISTRATIVE OR TECHNICAL BACKSTOPPING COSTS SHOULD BE NECESSARY BEYOND THOSE REFLECTED IN THE BUDGET.

6. INITIATION OF WORK

MISSION AND GOP DESIRE A START ANY TIME BEFORE MAY 1, 1981 FOR COMPONENTS #1 AND #2. START FOR COMPONENT #3 IS MORE FLEXIBLE, HOWEVER, A START BEFORE MAY 1 OR AFTER JULY 15 IS PREFERRED. MURPHY

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OTD #43

June 17, 1981

Technical Assistance for the Barangay
Water Program - Philippines

The Barangay Water Program (BWP) is designed to provide potable water via small systems of public faucets or individual house connections, including small household storage facilities, to small rural farming and fishing communities.

AID/Manila requested technical assistance from WASH for the start-up, delivery, performance testing and post-completion training, as well as recommendations for improving the SAPANAG BATO water system; other assistance is desired in refining designs, revising the post-completion manual, and improving local manufacture of BWP system components. The consultant will also inspect each operational BWP "Level III-A" system, make appropriate recommendations, and produce a set of 35 mm. color slides of these systems for training, orientation and de-briefing purposes. For further information, contact Dr. D. Warner.

Fifty person days of international or domestic per diem, one international air trip and up to eight trips within the Philippines are authorized during the three month period of this OTD.

JEB/CIC/6-18-81

June 17, 1981

Water and Sanitation for Health (WASH) Project
Order of Technical Direction Number 43

TO: Dr. Dennis Warner, Ph.D., P.E.
WASH Project Director (Acting)

FROM: Mr. Victor W.R. Wehman, Jr., P.E., R.S. *VW*
AID WASH Project Manager

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of Work
for USAID/Philippines

REFS: A) MANILA 10774 dated 14 May 81, B) WASH telex No. 061 dated 20 May
81, C) MANILA 12981 dated 10 June 81, D) Brady/McJunkin/Wehman
telephone conversation on May 1, 1981, regarding use of Emmett Lowry
for Sapangbato, E) Brady/Wehman telcon 22 May 81, and F) Brady/
Arbuthnot telcon 22-25 May 81

1. WASH contractor requested to provide technical assistance to USAID/Philippines as per REF C, para. 2.A. and 2.B. Scope of Work.
2. WASH contractor/sub-contractor/consultants authorized to expend up to 52 person days effort over a three (3) month period to accomplish this technical assistance effort.
3. Contractor to provide draft final report to mission on all elements of REF. C, para. 2.B. before leaving Mission. Consultant to have USAID/Philippines project officer (Mr. C. Brady) send cable indicating degree of satisfaction with completeness of consultant's work before consultant finally leaves for next assignment. Consultant to return to WASH office in Rosslyn to complete final version of reports and for debriefing purposes before returning to consultant's home base. Final report due in DS/HEA and Mission within 30 days of consultant finishing mission in Philippines and leaving Philippines.
4. Contractor to coordinate directly with USAID/Philippines (Mr. C. Brady). Ensure that this OI is provided to and discussed with Dr. Curlin (health officer-Asia Bureau); Mr. Hasan Hasan (Chief Engineer-Asia Bureau); ASIA/PD Philippines officer (Mr. Jay Nussbaum) and ASIA/PTB desk officer (Mr. Carl Penndorf) in an expeditious manner.
5. Fifty (50) person days of international or domestic per diem is hereby authorized.
6. One international airfare or travel from Thailand to Manila to Washington, D.C. to San Diego authorized.
7. Up to eight (8) round trips (domestic, Philippines) from Manila to Davao and return to Manila authorized during three month period of this OI.

8. Local ground transportation - taxis, motorcycles, car or animal rentals authorized as necessary and appropriate.
9. Seven day work week authorized if necessary and proper and certified by USAID/Philippines project officer (C. Brady) and chief consultant, Mr. Lowry.
10. Miscellaneous expenses authorized, NTE \$400.
11. Local graphics and reproduction costs and secretarial expenses authorized in addition to person days authorized in para. 2 of this OTD, NTE \$1600.
12. WASH consultant required to take representative group of 35 mm color slides to adequately portray level III A typical system (design, O&M aspects, community acceptance aspects, and success/problem areas to date) and to use these slides or other materials for debriefing purposes in Washington for Asia Bureau and other interested Agency individuals.
13. Mission and consultant should be contacted immediately and technical assistance initiated as soon as possible or convenient to USAID/Philippines. Ensure WASH consultant is properly backed up during period of technical assistance.
14. Appreciate your prompt attention to this matter. Note that Mission wants his services to start on 22 June 1981. Good luck.

VvW:ja:6/17/81

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PAGE 01 MANILA 12981 181338Z
ACTION AID-35

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ACTION OFFICE DSHE-01
INFO AAAS-01 ASEM-01 ASPT-02 ASDP-02 CHG-01 STA-10 FM-02
ASPD-03 ASTR-01 AADS-01 CMGT-02 CTR-02 ENGR-02 CH8-01
RELO-01 MAST-01 /834 A2 711

INFO OCT-01 /836 W

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R 180843Z JUN 81
FM AMEMBASSY MANILA
TO SECSTATE WASHDC 8534

UNCLAS MANILA 12981

AIDAC

E.O. 12865 N.A.
SUBJECT: TECHNICAL ASSISTANCE - BARANGAY WATER PROGRAM

REF: A. DENNIS WARNER TELEX 861
- B. TELEPHONE CONVERSATIONS BRADY/MCJUNKIN/WEHMAN,
- MAY 1; BRADY/WEHMAN, MAY 22; AND BRADY/
- ARGUTHNOT, MAY 22/25
- C. MANILA 19774

1. SUMMARY

MISSION PROPOSED THAT TECHNICAL ASSISTANCE BE PROVIDED TO BWP UNDER WASH PROJECT FUNDING IN REFERENCED CABLES AND CONVERSATIONS.

WASH PROJECT OFFICERS WEHMAN AND MCJUNKIN HAVE CONCURRED WITH PROPOSAL IN PRINCIPLE AND HAVE REQUESTED A MORE DETAILED SCOPE OF WORK, PROJECT TIMEFRAMES AND PRELIMINARY BUDGET DATA.

COMMERCIAL TELEX-NO. 861, WHICH CONFIRMS TELEPHONE CONVERSATION OF MAY 22, WAS ALSO RECEIVED BY THE MISSION FROM WASH PROJECT CONTRACTOR ACKNOWLEDGING AVAILABILITY OF THE TECHNICIAN TO PERFORM SERVICES AND REQUESTING THE DETAILED SCOPE EARLIER REQUESTED BY MR. WEHMAN IN REF TELEPHONE CONVERSATION.

THE SCOPE WHICH FOLLOWS PROVIDES THE MATERIAL REQUIRED BY DS/HEA. IT SHOULD BE TRANSMITTED TO THE WASH PROJECT CONTRACTOR BY WASH PROJECT OFFICER OF DS/HEA.

ALL SERVICES REQUESTED ARE OUTSIDE THE SCOPE AND FINANCING OF OTHER BWP AGREEMENTS.

2. SCOPE OF WORK

A. GENERAL

SERVICES OF MR. EMMETT LOWRY, WATERWORKS SPECIALIST OF NESTE, BRUDIN AND STONE, ARE REQUESTED FOR PERIOD OF SIX WEEKS BEGINNING 22 JUNE 1981. LOWRY INDICATES BREAK IN CONTRACT OF ONE (1) WEEK MAY BE REQUIRED IN MID-JULY IN ORDER TO ACCOMMODATE STANDING COMMITMENTS IN INDONESIA. BREAK PROVIDES NO DIFFICULTY FOR MANILA MISSION OR GOP.

MR. LOWRY WILL WORK ON CONTRACT FUNDED BY WASH PROJECT AND PROVIDE SERVICES TO USAID MANILA AND THE BWP AS FOLLOWS:

CONTRACTOR WILL WORK UNDER THE SUPERVISION AND GUIDANCE OF USAID PROJECT OFFICER AND GOP PROGRAM DIRECTOR:

B. SPECIFICALLY CONTRACTOR WILL:

DIRECT OPERATIONAL START-UP AND DELIVERY OF SYSTEM, CONDUCT PERFORMANCE TESTS OF SAPANG BATO WATER SYSTEM, CONDUCT POST-COMPLETION TRAINING FOR SAPANG BATO WATER SYSTEM (PARTICIPANTS WILL INCLUDE BWP, ANGELES CITY AND COMMUNITY WATER ASSOCIATION PERSONNEL), RECOMMEND DESIGN REFINEMENTS AND REMEDIAL MEASURES FOR SYSTEM DEFICIENCIES, ASSIST LOCAL GOVERNMENT PERSONNEL IN THE ADAPTATION AND IMPLEMENTATION OF DESIGN REFINEMENTS, REVISE POST-COMPLETION TRAINING MANUAL AS NECESSARY, COORDINATE WITH LOCAL MANUFACTURERS IN THE DEVELOPMENT AND IMPROVEMENT OF RESTRICTORS, FLOAT VALVES, HOUSEHOLD STORAGE TANKS, AND CHECK VALVES NEEDED FOR BROADER APPLICATION OF LEVEL IIIA WATER DELIVERY CONCEPT, AND VISIT EACH OPERATIONAL LEVEL IIIA PROJECT IN ORDER TO INSPECT AND RENDER RECOMMENDATIONS FOR SYSTEM IMPROVEMENTS AND MODIFICATIONS.

3. BUDGET REQUIREMENTS

A. TRAVEL

INTERNATIONAL - AIRFARE FOR ONE (1) TICKET FROM THAILAND TO SAN DIEGO VIA MANILA

DOMESTIC - AIRFARES FOR EQUIVALENT OF SIX (6) ROUND TRIPS FROM MANILA-DAVAO AND BACK TO MANILA (BUDGET APPROXIMATELY US DOL 1500 FOR THIS ITEM).

B. PER DIEM

ASSUME 45 DAYS AT US DOLS/TT PER DAY FOR PER DIEM COSTS

C. LAND TRANSPORTATION

ASSUME US DOLS 388 FOR ENTIRE PERIOD

D. SALARY, BENEFITS, OTHER

AS NEGOTIATED BY AID/W AND WASH INDEFINITE QUANTITY CONTRACTOR.
4. PLEASE ACKNOWLEDGE RECEIPT OF THIS INFORMATION AND PASS TO CAMP DRESSER AND MCKEE. MURPHY

Received DS/HEA (Wehman) 6/16/81
Passed to WASH 6/16/81

UNCLASSIFIED

ACTION
COPY

UNCLASSIFIED
Department of State

INCOMING
TELEGRAM

PAGE 01
ACTION AID-35

MANILA 10774 142244Z

1967 006323 AID1040

| | | | | | | | | |
|---------------|---------|---------|---------|---------|---------|----------|---------|--|
| ACTION OFFICE | DSHE-01 | | | | | | | |
| INFO | AAAS-01 | ASEM-01 | ASPT-02 | ASDP-02 | PPCE-01 | P DPR-01 | PPPB-03 | |
| | PPEA-01 | STA-10 | ASPD-03 | ASTR-01 | AADS-01 | ENGR-02 | CH8-01 | |
| | RELO-01 | MAST-01 | DC-01 | /034 A4 | 816 | | | |

INFO OCT-01 /038 W -----365655 142245Z /34

R 140850Z MAY 81
FM AMEMBASSY MANILA
TO SECSTATE WASHDC 7179

UNCLAS MANILA 10774

AIDAC

PASS TO GENE MCJUNKIN, DS/HEA/COMMUNITY WATER SUPPLY

E. O. 12065 N. A.
SUBJECT: TECHNICAL ASSISTANCE - BARANGAY WATE
PROGRAM

REF: BRADY/MCJUNKIN/WEHMAN TELEPHONE CONVERSATION
- ON MAY 1, REGARDING USE OF EMMETT LOWRY FOR
- SAPANGBATO

1. MISSION WOULD LIKE TO REQUEST LOWRY'S SERVICES, TO BE FUNDED UNDER THE WASH PROGRAM, FOR AT LEAST TWO WEEKS BEGINNING MID-JUNE.

2. MR. LOWRY WOULD ASSIST IN CO UCTING PERFORMANCE TESTS, OPERATIONAL START OF SYSTEM AND RECT POST COMPLETION TRAINING FOR SYSTEM MAINTENANCE O OPERATIONAL PERSONNEL.

3. LOWRY'S SCHEDULE MAKES HIM A ILABLE IN THAILAND AROUND FIFTEEN JUNE THUS FUNDING REQUIR ENTMENTS WOULD BE FOR TRANS- PORTATION FROM BANGKOK TO SAN DI O VIA MANILA, PERSONAL SERVICES COMPENSATION, AND PER C M FOR PERIOD OF TWO TO THREE WEEKS. ALL COSTS TO BE CC ERRED BY AID/W'S WASH PROJECT. LOWRY CAN BE CONTACTED THROUGH HIS SAN DIEGO HOME OFFICE.

4. PLEASE REPLY WITHIN TEN DAYS AS PLANNING IS CRITICAL. MURPHY

THAILAND - 15th of June.

one official ↑

start 18th of June.

U. Wehm

Western Union International Telex

WUI GA
7227366
WASHAID 64552

0115814 1431 05/20

27366 AME PH

OUR TELEX NO. 061

TO: C.C. BRADY
PROJECT MANAGER, BARANGAY PROJECT
OFFICE OF CAPITAL DEVELOPMENT AND ENGINEERING
USAID, MANILA

FROM: DENNIS WARNER
WASH PROJECT
WASHINGTON, D.C.

REF: MANILA 10774, 14 MAY 1981

1. EHNETT LOWRY IS AVAILABLE FOR WORK DESCRIBED IN MANILA 10774, STARTING END OF JUNE. HE IS PREPARED TO PROVIDE SERVICES FOR A PERIOD OF FOUR TO SIX WEEKS, BUT HE MAY REQUIRE A FEW DAYS OFF DURING THAT PERIOD.

2. PLEASE CABLE DETAILED SCOPE OF WORK FOR THIS ACTIVITY TO DS/HEA. WASH PROJECT CANNOT UNDERTAKE REQUESTED ASSISTANCE WITHOUT ORDER OF TECHNICAL DIRECTION FROM DS/HEA CONTAINING DETAILSCOPE OF WORK.

*
27366 AME PH
MMMM
002.9 MIN

Western Union International

WATER AND SANITATION FOR HEALTH (WASH) PROJECT
ORDER OF TECHNICAL DIRECTION NUMBER 43
Amendment Number 1

January 8, 1982

TO: • Dennis Warner, Ph.D., P.E.
WASH Contract Project Director

FROM: Victor W.R. Wehman, Jr., P.E., R.S. *VW*
A.I.D. WASH Project Manager
A.I.D./S&T/HEA/CWSS

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of Work
for U.S. A.I.D./Philippines, OTD Number 43

REF: A) OTD Number 43, dated June 17, 1981

1. Paragraph two of subject OTD Number 43 is cancelled and a new paragraph is as follows:

"WASH contractor/subcontractor/consultants authorized to expend up to eighty (80) person days effort over a ten (10) month period to accomplish this technical assistance effort."

2. Paragraph five of subject OTD Number 43 is cancelled and a new paragraph five is as follows:

"Fifty-eight (58) person days of international and/or domestic per diem is hereby authorized."

3. Paragraph six of subject OTD Number 43 is cancelled and a new paragraph six is as follows:

"One (1) international air fare or travel from Thailand to Manila to Washington, D.C. to San Diego is authorized. In addition, one (1) international round trip from San Diego to Manila and return San Diego through Washington, D.C. for debriefing purposes is authorized."

4. Nothing follows.



OTD #44

June 26, 1981

Training and Technical Assistance for
Technology Development and Dissemination
in Water and Sanitation for Rural Sani-
tation Manpower Project - Indonesia.

The Center for Education and Training (PUSDIKLAT) of the Indonesian Ministry of Health is the implementing agency for the Rural Sanitation Manpower Development Project. It requested support from USAID/Jakarta in the design of a program of training and technical assistance in the development and dissemination of appropriate technology in water and sanitation. Specific assistance is needed to refine the proposed design and to identify required program inputs. This work is a follow-on to OTD #25, in which WASH consultants participated in a planning workshop in Batu-Malang, East Java, in March, 1981, on the Rural Sanitation and Manpower Development Project (RMSD).

For further information, contact Dr. R. Isely.

WASH is authorized to expend up to 60 person days on this OTD. One round trip to Indonesia and up to six round trips from Jakarta within Indonesia to visit RMSD sites are also authorized.

JEB/CIC/6-30-81

Water and Sanitation for Health (WASH) Project
Order of Technical Direction (OTD) Number 44

June 26, 1981

MEMORANDUM

TO: Dennis Warner Ph.D., P.E.
WASH Project Director (Acting)

FROM: DS/HEA, John H. Austin *John H Austin*

THRU: DS/HEA, Victor W. R. Wehman, Jr., P.E., R.S. *WVW*
AID WASH Project Manager

SUBJECT: Provision of Training and Technical Assistance for Technology
Development and Dissemination in Water and Sanitation for RSMD/
USAID, Indonesia

REFS: 1) JAKARTA 07976, 2) JAKARTA 08178, 3) Memo Keller to Wehman, 3 June
81, 4) WASHAID 64552 - TLX 066, 5) STATE 146531, 6) Letter Meade to
Austin, 8 June 81, 7) Clive Chapman-Curriculum Vitae, 8) Alan
Spencer-Curriculum Vitae, 9) Manpower Development Programme for
Community Water Supply in the Republic of Indonesia -IRC, Jan 81,
10, Manpower Development for the Urban Water Supply Sector,
Indonesia. Manpower Classification System-IRC, April 1981.
11) Manpower Development for the Urban Water Supply Sector: Plan
of Operation IRC, Sept. 1, 1980, 12) Manpower Development
Programme for Community Water Supply in the Republic of Indonesia.
Report of Training Consultant. IRC. Jan 1981, 13) JAKARTA 09302,
14) JAKARTA 09516, and 15) Business cards

1. WASH contractor requested to provide technical assistance to USAID/Jakarta per Scope of Work (REF 14)
2. WASH contractor/subcontractor/consultants authorized to expend up to 60 person days effort over a 3 month period for this.
3. Contractor to provide final draft report to mission on Scope of Work elements before leaving mission. Contractor to make arrangements for local secretary and typewriter-as needed. Contractor to provide final report to USAID within 30 days of contractor's staff leaving Indonesia.
4. Contractor to coordinate directly with USAID/Jakarta (Mr. Bob Pratt) in the Health Office of Mission. Make sure Dr. Curlin (ASIA/TR/HNP), ASIA/PD Indonesia officer, Indonesia AID desk officer and ASIA/PD/ENGR (Mr. Hasan Hasan), are aware of this technical assistance effort and of travel itineraries and clearances of all consultant staff.
5. Contractor authorized up to 56 person days of international and domestic per diem.

6. Contractor authorized one round trip travel from consultant's home base through Washington to Jakarta, return to Washington for debriefing and return to their home base.
7. Contractor should ensure a timely and thorough briefing and debriefing for Asia Bureau and DS/HEA personnel in Washington, D.C. before and after trip.
8. Contractor authorized to pay local expenses in Jakarta or other Indonesia sites for local hire of secretary, interpreter, xeroxing, car rental or other miscellaneous expenses.
9. Contractor authorized up to 6 round trips within Indonesia to RSMD sites, if required, from Jakarta to sites and return to Jakarta, if necessary, to carry out mission.
10. Mission should be contacted immediately and technical assistance initiated as soon as possible and convenient to USAID/GOI.
11. In Indonesia contact should be made with Alan Spencer on his implementation plan for training. He can be contacted at:

IRC Manpower Development Programme
c/o Mr Dol
Dutch Embassy
Kebon Sirim No. 18
Jakarta, Indonesia

12. In order for contractor to prepare himself for his mission, it is suggested that he make the following visits (no more than 2 days maximum):

Contact

- (1) WASH staff, AID staff
- (2) Industrial Training Service, (See Ref. 6-12 and 15)
J.P. de C. Meade
Clive Chapmen
Anthony Milburn
- (3) IRC, Rijswijk, Netherlands (See Ref. 6-12 and 15)
Gareth Howell
Hans van Damme
Jan Haijkens

PAGE 01
ACTION AID-35

JAKARTA 07976 260744Z

9027 013311 AID9233

ACTION OFFICE DSHE-01
 INFO AAAS-01 ASEM-01 ASDP-02 STA-10 ASPD-03 ASTR-01 AADS-01
 CMGT-02 CTR-02 ENGR-02 POP-04 IT-06 CH8-01 HEW-09 RELO-01
 MAST-01 ASSP-02 AGEE-01 /051 A1 426

INFO OCT-01 /036 W

-----242300 260744Z /34

R 260619Z MAY 81
FM AMEMBASSY JAKARTA
TO SECSTATE WASHDC 4277

UNCLAS JAKARTA 07976

AIDAC

EO 12065: N/A

SUBJECT: SHORT-TERM CONSULTANT - WATER AND SANITATION
FOR HEALTH (WASH)

1. MINISTRY OF HEALTH, CENTER FOR EDUCATION AND TRAINING (PUSDIKLAT) THE IMPLEMENTING AGENCY FOR THE RURAL SANITATION MANPOWER DEVELOPMENT PROJECT (RSMD) HAS REQUESTED ASSISTANCE FOR A PROGRAM OF TRAINING AND TECHNICAL ASSISTANCE FOR TECHNOLOGY DEVELOPMENT AND DISSEMINATION IN WATER AND SANITATION FIELD AS FOLLOW-ON TO MARCH WORKSHOP FOR WHICH WASH CONSULTANTS GEARHEART AND CALBERT PROVIDED TECHNICAL ASSISTANCE. IN ORDER TO REFINE THE PROPOSED PLAN, INCLUDING IDENTIFICATION OF APPROPRIATE INPUTS WHICH MIGHT BE MADE BY WASH AND OTHER SOURCES, PUSDIKLAT AND USAID REQUEST THAT WASH PROVIDE SERVICES OF DR. ROBERT GEARHEART FOR SIX WEEKS BEGINNING EARLY JULY 1981. HE WOULD WORK WITH THE PUSDIKLAT RSMD STAFF TO REFINE THE PROPOSAL AND PLAN SPECIFIC ACTIVITIES. PLEASE ADVISE IF CONSULTANCY POSSIBLE AS REQUESTED. MASTERS

Received in DS/Hea (Waharaw) 6/3/81
Passed to WASH. 6/3/81

Department of State

TELEGRAM

PAGE 01 JAKART 09511 0550Z 5444 001210 AID9183

JAKART 09516 230550Z 5444 001210 AID

THUS AVOIDING COSTLY COMMERCIAL TELEX. IS THERE A PROBLEM WITH THIS? MASTERS

ACTION OFFICE ASTR-01
INFO AAAS-01 ASEH-01 ASDP-02 STA-10 ASPD-03 AADS-01 DSHE-01
DSFH-01 CH8-01 RELO-01 MAST-01 ASSP-02 /026 AS 1123

INFO OCT-01 /036 W
-----216354 230551Z /34

P 230405Z JUN 81
FM AMEMBASSY JAKARTA
TO SECSTATE WASHDC PRIORITY 4945

UNCLAS JAKARTA 09516

AIDAC

ATTN: A) DR. G. CURLIN, ASIA/TR/HPN; BI DR. E. MCJUNKIN, DS/HEA

ED 12065: N/A

SUBJECT: SCOPE OF WORK FOR SERVICES OF DR. R. GEARHEART:

REF: A) R.B. ISELY'S TELEX 069; B) JAKARTA 09302;
C) DENNIS WARREN'S TELEX 066; D) STATE 146531;
E) JAKARTA 07976; F) JAKARTA 08178.

FOLLOWING IS TEXT OF SEPARATE TELEX SENT TO R.B. ISELY IN RESPONSE TO HIS REQUEST FOR DIRECT MESSAGE TO AIDWASH:

1. MISSION TRANSMITTED TO AID/W THREE CABLES (REFTELS E, F, AND B) REQUESTING GEARHEART'S SERVICES. REFTEL E AND F WERE, BY OVERSIGHT, IDENTICAL. REFTEL B WAS MARKED QUOTE PASS TO UNQUOTE DENNIS WARREN, WASH AID AND REPEATED THE SUBSTANCE OF PRIOR CABLES.

2. AFTER DISCUSSION WITH COUNTERPARTS AT MINISTRY OF HEALTH WE ARE NOT ABLE TO PROVIDE SCOPE OF WORK IN FORM ANY MORE DETAILED THAN YOU ALREADY HAVE. A LITTLE BACKGROUND HISTORY MAY HELP: MOH PROPOSAL RECEIVED BY USAID REQUESTED AID WASH SUPPORT FOR TRAINING IN APPROPRIATE ENVIRONMENTAL SANITATION TECHNOLOGY IN VARIOUS ASIAN COUNTRIES; CONDUCT OF WORKSHOPS; OBSERVATION TOURS IN U.S.; AND CONSULTANT ASSISTANCE TO DEVELOP AND REFINE THE MINISTRY'S TECHNOLOGY-DEVELOPMENT PLAN.

USAID ENDORSED THE PROPOSAL IN PRINCIPLE BUT, BECAUSE OF EXCESSIVE COST AND SOME SHORTCOMINGS, AGREED TO REQUEST THE SERVICES OF DR. GEARHEART WHO IS BOTH FAMILIAR WITH THE PROPOSED ACTIVITIES AND SPECIFICALLY PREFERRED BY THE MOH. WE FEEL DR. GEARHEART'S TECHNICAL ASSISTANCE WOULD PROVIDE THE INPUT NECESSARY FOR THE IMPROVEMENT UNCLASSIFIED

OF THE EXISTING PLAN AND THE POTENTIAL FUTURE INVOLVEMENT OF WASH IN THIS IMPORTANT FIELD.

3. A COPY MEMO RECEIVED HERE FROM ASIA/TR, DATED JUNE 3, 1981 INDICATES SYMPATHY WITH OUR PRIOR REQUEST FOR GEARHEART AND EXPLICITLY REQUESTS DS/HEA ASSISTANCE WITH PROCUREMENT OF HIS SERVICES. REFTEL D ADVISES THAT DS/HEA QUOTE WILL DO THE NEEDFUL UNQUOTE IN PROVIDING US WITH GEARHEART'S SERVICES.

4. INASMUCH AS BOTH YOUR TELEX MESSAGES (REFTEL A AND C) SUGGEST GAP IN COMMUNICATION BETWEEN AIDWASH AND DS/HEA PLEASE CHECK WHETHER ALL MESSAGES WERE PASSED BETWEEN YOU AND DS/HEA.

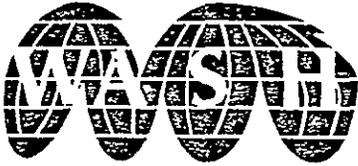
5. MISSION PREFERENCES TO COMMUNICATE WITH AIDWASH VIA DS/HEA.

*Passed to WASH
6/24/81*

Austin JWC

Mc Junkin

UNCLASSIFIED



OTD 54

August 27, 1981

Participating in AID Health Officers Work-
shop in Chiang Mai, Thailand, 8-14 November
1981

WASH participation in the above workshop was requested by the Asia Bureau in order to plan and facilitate discussions of Bureau policy on water supply and sanitation, presently under development. A WASH consultant has already prepared a draft policy discussion paper. The WASH consultant will also serve as a resource person during workshop sessions and be available to participants for consultation. The American Public Health Association is responsible for the overall organization of the workshop. A debriefing should be held within thirty (30) days of completion of the workshop.

For further information, contact Dr. R. Isely.

Up to three (3) days preparation time and seven (7) days of international travel time, per diem and miscellaneous expenses at the workshop are authorized by this OTD.

JEB/CIC
9/4/81

WATER AND SANITATION FOR HEALTH (WASH) PROJECT
ORDER OF TECHNICAL ASSISTANCE NUMBER 54

AUGUST 27, 1981

MEMORANDUM

TO: Dennis Warner, Ph.D., P.E.
WASH Project Director (Acting)

FROM: S&T/HEA, John H. Austin *John H. Austin*

THRU: S&T/HEA, Victor W.R. Wehman, Jr., P.E., R.S. *V. Wehman*
AID WASH Project Manager

SUBJECT: Participation in AID Health Officer's Workshop in
Chiang Mai, Thailand, 8-14 November 1981

REFS: 1. Memo from Howard Keller to Vic Wehman, 19 August 1981
2. AID/ASIA Bureau Health, Nutrition and Population officers
Conference, Chiang Mai, Thailand, Nov. 9-14, 1981; Workshop
Draft Agenda

1. The WASH contractor is requested to provide assistance to the Asia Bureau (ASIA/TR/HPN) in the design and implementation of the Asia Region Health Officer's Workshop in Chang Mai, Thailand, 8-14 November 1981 as per REF. 1 above.
2. Authorization is provided for up to 3 days for the preparation of the presentation for the workshop.
3. Authorization is provided for 7 days of international travel time and per diem, and miscellaneous expenses to conduct the workshop in Chang Mai.
4. All efforts are to be approved by George Curlin and coordinated with Howard Keller, ASIA/TR (235-8860) and Sarita Henry of S&T/HEA (235-9649). She will provide liaison with APHA. Content of presentations and duration are to be coordinated with Howard Keller.
5. A debriefing should be held within 30 days of returning from the workshop for ASIA/TR/HPN and S&T/HEA.

UNITED STATES GOVERNMENT

Memorandum

TO : Mr. Victor Wehman, Project Manager, S&T/HEA/WASH DATE: August 19, 1981

FROM : Howard B. Keller, Public Health Advisor; ASIA/TR/HPN

SUBJECT: Asia Bureau HPN Conference - WASH Assistance

As you know, the Asia Bureau is planning a health-population-nutrition officers conference to take place in Chiang Mai, Thailand from November 8 through 14. One of the major issues to be discussed will be a review of the Bureau policy on water supply and sanitation. The WASH project has already been most helpful in assisting us in producing background materials and a position paper for these discussions.

We would like very much to have Dr. Raymond Isley and Dr. Eugene McJunkin attend the Conference to take part in this review. We would like to have them with us for two or three days as a minimum to act as faculty and to be available to our field people on a one to one basis. As soon as we have firmed up the agenda and can tell you the dates for the WS & S sessions I will give you that information.

I regret that the Asia Bureau is not in a position to fund travel and per diem for either of the requested people.





OTD 73

December 7, 1981

Technical Assistance in Revision of
CARE Water Supply and Sanitation Project
- Indonesia

WASH contractor was requested by AID/Indonesia for technical assistance in reviewing and refining the scope of work of an AID-funded CARE water and sanitation project. Specifically, assistance was desired to integrate a health education component into the project. In addition, the possible use of local resources to accomplish the latter was to be assessed.

For further information, contact Dr. R. Isely.

Up to fifteen person days over a two month period and up to ten days of international per diem are authorized. One international air round trip to Jakarta, two internal air trips, local transportation and up to \$800 for secretarial or reproduction services are also authorized.

JEB/CIC
1/5/82

WATER AND SANITATION FOR HEALTH (WASH) PROJECT
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 73

December 7, 1981

TO: Dr. Dennis Warner, Ph.D., P.E.
WASH Contract Project Director

FROM: Victor W.R. Wehman, Jr., P.E., R.S. *VWR*
S&T/HEA/CWSS
AID WASH Project Manager

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of Work
for USAID/Indonesia (Jakarta) and C.A.R.E.

REFS: A) Memo Keller/Wehman, 2 Dec 81
B) JAKARTA 18010, 1 Dec 81
C) Memo Isely/Wehman on C-180, 30 Nov 81
D) WASH Telex 137, 25 Nov 81
E) Chaing Mai Thailand Meeting (Keller, McJunkin, Iseley,
Studzinski, Calder), 10 Nov 81
F) STATE 291566, 31 Oct 81
G) Memo Keller/Wehman, 22 Oct 81
H) JAKARTA 16020, 21 Oct 81

1. WASH contractor requested to provide technical assistance to USAID/Indonesia and C.A.R.E. as per Ref. B and para. 2 of REF. C. This consultancy is assessment and scope of work development in nature and should not be construed as detailed materials development, health education plan design, testing of materials or preparation of an evaluation or final report as described in initial C.A.R.E./USAID scope of work in Ref. H., para. A. (1-4).
2. WASH contractor/Subcontractor/consultants authorized to expend up to 15 person days of effort over a 2 month period to accomplish this technical assistance effort.
3. Contractor to coordinate with ASIA/TR/HNP (H. Keller), AID/ASIA desk officer for Indonesia, and mission. Contractor should provide copies of this OTD to Mr. Keller, desk officer, USAID/HPN officer (Calder) by telex and consultant by telex.
4. Contractor should ensure that consultant is provided for 10 day TDY beginning in late Dec. 81. Contractor will ensure that consultant is well qualified to accomplish this task.
5. Contractor authorized to provide one (1) international round trip from consultant's home base to Jakarta, Indonesia and return to home base.
6. Contractor to detailedly brief and debrief consultant by some means before and after mission.

7. Consultant to leave a final report with mission before leaving USAID/Jakarta. Contractor to request USAID/health officer to send final report by Air Pouch or with personnel going back on TDY to Washington, D.C. to WASH Project Coordination and Information Center, 1611 N. Kent Street, Arlington Virginia or to ST/HEA (Wehman).
8. Contractor authorized to obtain secretarial or reproduction services in Indonesia if necessary. Request USAID/Jakarta provide secretarial and reproduction services if at all possible. These services are in addition to level of effort identified in para. 2 and are NTE \$800 if necessary to obtain on commercial market.
9. Contractor authorized to provide for car rental, train tickets, taxis or miscellaneous transportation within Indonesia. Mission or C.A.R.E. is encouraged to provide local support transportation.
10. Up to 2 round trips within Indonesia (air trips) from Jakarta to point of destination and return are authorized if necessary.
11. Consultant should call WASH CIC to provide detailed progress report at end of 6th day of consultancy in Indonesia and after final report is finished (typed).
12. WASH contractor definitely should be prepared to administratively and/or technically backstop field consultant as necessary.
13. Mission, C.A.R.E, and consultant should be contacted immediately and technical assistance initiated before the end of Dec 81.
14. Appreciate your prompt attention to this matter. Good luck.

VWW:ja

UNITED STATES GOVERNMENT

Memorandum

TO : Mr. Victor Wehman, S&T/HEA

DATE: December 2, 1981

FROM : Howard B. Keller, Asia/TR/HPN

SUBJECT: Request for Wash Services, Jakarta 18010

Attached is a copy of Jakarta telegram # 18010 in which the Mission requests the services of a consultant under the WASH project for 5 to 10 days to assist CARE- Indonesia in refining the scope of work for a Water Supply project.

This request is well within the scope of technical assistance to be furnished by WASH. The Mission suggests that Mr. David Drucker who is presently in Tjailand for WASH is suitable for the job. Using the services of Mr. Drucker will greatly reduce the cost of this T/A since transportation costs will be limited to Thailand-Indonesia- Thailand.



5010-109

Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan

UNCLASSIFIED

ACTION AID-35

ACTION OFFICE TR-01
INFO ASEM-01 SDP-02 FVA-02 ASPD-03 PVC RELO-01 MAST-01
ASSP-02 /015 A3 81

INFO OCT-00 AMAD-01 /036 W
-----242615 011248Z /38

R 010751Z DEC 81
FM AMEMBASSY JAKARTA
TO SECSTATE WASHDC 8506

UNCLAS JAKARTA 18010

AIDAC

FOR HOWARD KELLER, ASIA/TR

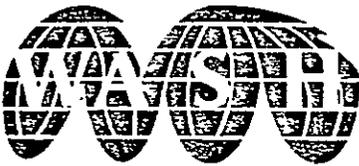
EO 12065: N/A

SUBJECT: CARE REQUEST FOR WASH SERVICES

REF: (A) JAKARTA 16020; (B) STATE 291568

MISSION HEALTH NUTRITION OFFICE ADVISES THAT PER REFTEL B WASH INDICATED IN CHIANG MAI THEY ARE ABLE TO PROVIDE A SHORT TERM CONSULTANT FOR 15-10 DAYS TO REFINE CARE SCOPE OF WORK. CARE AND MISSION WELCOME THIS ASSISTANCE. THIS CONSULTANT SHOULD BE PREPARED TO ASSESS LOCAL RESOURCES AVAILABLE FOR TRAINING OF CARE STAFF AND MATERIALS DEVELOPMENT. MISSION BELIEVES CARE HAS RECENTLY PROCURED SERVICES OF A RESOURCE PERSON WITH AN MPH WHO MAY ASSIST WASH CONSULTANT. EARLY SCHEDULING OF THIS VISIT WOULD BE DESIRABLE. WE UNDERSTAND DAVID DRUCKER FROM BANGKOK IS AVAILABLE. MISSION WELCOMES HIS PARTICIPATION. HE WILL WORK FROM SCOPE OF WRK ALREADY SUBMITTED BY CARE PER REFTEL A IN SO FAR AS IS POSSIBLE DURING VERY BRIEF VISIT.
MONJO

UNCLASSIFIED



OTD 79

January 25, 1982

Technical Assistance in Planning Diarrheal
Disease Control Subproject - Indonesia

AID/Indonesia requested WASH to assist ACEH Province officials in planning a diarrheal disease control subproject that includes a water supply and sanitation component. This is part of CHIPPS - Comprehensive Health Improvement Project - Province Specific. The scope of work includes assessing known epidemiologic information and the state of domestic water supply and sanitation facilities in Kabupaten Pidie, reviewing existing training and supervision activities in water supply and sanitation and the community participation situation, and developing recommendations and appropriate interventions which might be used in the subproject. The WASH consultant will collaborate with the AID project design team in preparing a work plan for the subproject which integrates water supply and sanitation activities with diarrheal disease control, surveillance, treatment, training, and community participation.

For further information, contact Dr. R. Isely.

Up to thirty-five person days and thirty days of international/domestic per diem over a four month period are authorized. One international air round trip, local travel expenses in Indonesia and up to \$2,200 for local secretarial, graphic and reproduction services are also authorized.

JEB/CIC
2/3/82

WATER AND SANITATION FOR HEALTH (WASH) PROJECT
ORDER OF TECHNICAL DIRECTION NUMBER 79

January 25, 1982

TO: Dennis Warner, Ph.D., P.E.
WASH Contract Project Director

FROM: Victor W.R. Wehman, Jr., P.E., R.S. *VWR*
A.I.D. WASH Project Manager
A.I.D. S&T/HEA/WS

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of Work
for U.S. A.I.D./Indonesia

REF: A) State 339494
B) Jakarta 19324
C) Curlin/Austin Memorandum-WASH Request with SOW
dated December 30, 1981
D) Jakarta 341, January 11, 1982
E) State 11285
F) Jakarta 897, January 20, 1982
G) Jakarta 730

1. WASH contractor requested to provide technical assistance to U.S. A.I.D./Indonesia as per reference C, paragraph three items one through five (numbered) and reference F, paragraph 2 A-F, scope of work in reference F takes precedence over scope in reference C.
2. WASH contractor/subcontractor/consultants authorized to expend up to thirty-five (35) person days of effort over a four (4) month period to accomplish this technical assistance effort.
3. Contractor authorized up to thirty (30) person days of international and/or domestic per diem to accomplish this effort.
4. Contractor to coordinate with ASIA/TR/HPN (G. Curlin and H. Keller), A.I.D./ASIA/ISPA (Desk, Mr. Sperling), A.I.D./ASIA/PD/ENCR (Mr. Hasan Hasan) and with S&T/HEA A.I.D. WASH Project Manager. Copies of this OTD along with periodic progress reports (especially ETAs) should be provided as appropriate or at the request of S&T/HEA or Asia Bureau Staffs.
5. Contractor to have consultant in Jakarta by February 1, 1982 or at time appropriate to U.S. A.I.D./Jakarta.
6. Contractor authorized to provide up to one (1) international round trip from the consultant's home base through WASH CIC (for briefing), to Jakarta, Indonesia (with local Indonesian travel as appropriate) with return through WASH CIC in Washington, D.C. to consultant's home base.
7. Contractor authorized local travel in Indonesia as necessary and appropriate to accomplish technical assistance mission. This includes airline or private aircraft trips, rental of vehicles (with drivers) or other conveyances. Mission is encouraged to provide local Jakarta or Banda Aceh vehicle transportation support if available and appropriate.

8. Contractor authorized to obtain local Indonesian or other available secretarial, graphics or reproduction services as necessary and appropriate to accomplish tasks. These services are in addition to the services specified in paragraphs two and three above NTE \$2,200 without approval of A.I.D. WASH Project Manager.
9. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.
10. Contractor should prepare draft final report in the field and receive comments back from Mission and/or Indonesian government (if possible) for final report preparation at WASH CIC in Washington, D.C. The final report is due the Mission within thirty (30) days of departure of WASH consultant from Indonesia.
11. Mission, ASIA/TR/HPN (H. Keller) and A.I.D. Indonesia Desk should be contacted immediately and technical assistance initiated in accordance with Mission timing requirements.
12. Appreciate your prompt attention to this matter. Good luck!

memorandum

DATE: December 30, 1981

REPLY TO
ATTN OF.ASIA/TR/HPN, George Curlin, M.D. *George Curlin*

SUBJECT: Request for WASH Consultant to Indonesia

TO: ST/HEA, Mr. John Austen

Today I received a cable from the Mission in Jakarta requesting technical assistance in the area of water supply and sanitation (WS/S). This is to assist in design of a diarrheal disease control sub-project of the Comprehensive Health Improvement Project - Province Specific (CHIP-PS). I gave Vic Wehman a copy of the approved Project Paper earlier in anticipation of this request.

I intend to support the mission request by fielding a two-person team. One member will be a physician who specializes in diarrheal disease. (We are proposing Dr. Cary Engleberg, Enteric Disease Unit of the CDC for this position.) The other team member should be a person with experience in community-based water supply and sanitation projects designed to complement diarrheal disease control activities. A person with a medical background who also fits these qualifications is preferable, but another professional with relevant experience in a health-oriented activity, such as community-based ORT programs, would be acceptable. We anticipate hardware considerations to be less important in the proposed activity than experience in mobilizing community participation, training, and health education. I am requesting your office to arrange for the second person via the WASH contract.

The specific duties in the scope of work are:

1. To assess the state of domestic water supply and sanitation facilities in the areas of Aceh Province targeted for this sub-project, and to identify needs which might be filled in the sub-project.
2. To discuss with Provincial water supply and sanitation personnel and to observe model WS/S systems and technologies available in the province and to recommend those technologies which are appropriate for inclusion in the sub-project.
3. To discuss with provincial WS/S and Health personnel the existing training and supervision activities in the field of WS/S, and to recommend appropriate maintenance and supervision manpower development activities which might be considered as part of the sub-project.



Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan

to WASH Field Office

4. To discuss community participation activities with Provincial WS/S and Health personnel, AID rural development officers active in PDP projects in the Province, and staff of PVO's active in the Province, and to recommend methods to insure optimal participation of the population in the design, operation and maintenance of the WS/S component of the sub-project.
5. To participate with the other team member(s) in drafting an implementation plan for the sub-project which integrates fully the diarrheal disease control and WS/S activities, and to submit the draft, including an itemized budget for the activities recommended, to the project officers at the end of the period of consultation.

The team should plan to spend three weeks in Indonesia, at least two weeks of which are expected to be in Aceh Province. Dr. David Calder, Chief of the Health and Nutrition Division, USAID/Jakarta has informed me the Aceh Province field work must be completed and travel in the Province ceased by February 15. Therefore, we are anticipating fielding the team in Jakarta Monday, January 25, 1982. Dr. Calder is traveling to Banda Aceh January 6 to attempt to secure clearances for the team. He will inform AID/W by cable immediately whether or not the consultancy can be made early in 1982. Meanwhile, I would appreciate your approaching the WASH contractors for suitable candidates.

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Department of Health

TELEGRAM

PAGE 01 JAKARTA CODE 000000 000000
ACTION AID-35

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ACTION OFFICE ASIR-01

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FM AMEMBASSY JAKARTA

TO SECSTATE WASHDC IMMEDIATE 5503

UNCLAS JAKARTA 02097

AIDAC

ATTN: GEORGE DURLIN, AID/OT/OP

EC 12085.1/A

SUBJECT: CMPT2 - WASH CONSULTANT FOR DIARRHEAL DISEASE CONTROL SUBPROJECT.

REF: (1) STATE 110505, (2) JAKARTA 1730

1. USAID REQUEST WBS-74 FOR WATER AND SANITATION SPECIALIST FOR UP TO 3 WEEKS BEGINNING SUBPROJECT BEGINNING
1. CONSULTANT TO ACCOMPANY DR. DURLIN AND DR. ZIMMELBERG TO ACEH PROVINCE TO ASSIST IN PLANNING OF SUBJECT SUBPROJECT.

2. SCOPE OF WORK FOR WASH CONSULTANT AS FOLLOWS:

- A. WORK WITH LOCAL OFFICIALS OF ENVIRONMENTAL SANITATION, COMMUNICABLE DISEASE CONTROL AND OTHER PROVINCIAL OFFICIALS TO BEGIN PLANNING DIARRHEAL DISEASE CONTROL SUBPROJECT WHICH INCLUDES WATER-SUPPLY-SANITATION ACTIVITIES.

- B. ASSESS THE WASH EPIDEMIOLOGIC INFORMATION ON EPIDEMIC AND ENDEMIC DIARRHEAL DISEASES AND THE STATE OF DOMESTIC WATER SUPPLY AND SANITATION FACILITIES IN KABUPATEN BIDA AND IDENTIFY CONTROL INTERVENTIONS WHICH MIGHT BE TESTED IN SUBPROJECT.

- C. REVIEW THE EXISTING TRAINING AND SUPERVISION ACTIVITIES IN THE FIELD OF WASH AND RECOMMEND APPROPRIATE MAINTENANCE AND SUPERVISION RELATED DEVELOPMENT ACTIVITIES WHICH MIGHT BE UNDERTAKEN AS PART OF SUBPROJECT OR AS A SEPARATE SUBPROJECT.

- D. REVIEW COMMUNITY PARTICIPATION ACTIVITIES WITH LOCAL OFFICIALS OF ENVIRONMENTAL SANITATION, HEALTH SERVICES AND PROVINCIAL PVO AND RECOMMEND METHODS TO INCURE OPTIMAL PARTICIPATION OF THE POPULATION IN THE DESIGN, OPERATION AND ESPECIALLY MAINTENANCE OF THE WASH COMPONENT OF SUBPROJECT.

- E. PARTICIPATE AS TEAM MEMBER WITH DR. GEORGE DURLIN AND DR. CARL ZIMMELBERG TO PREPARE A WORK PLAN FOR IMPLEMENTATION OF DIARRHEAL DISEASE CONTROL SUBPROJECT WHICH INTEGRATED WASH ACTIVITIES WITH TREATMENT, SURVEILLANCE, EDUCATION, ETC.

- F. PROVIDE WASH/OT/OP AND PROVINCIAL HEALTH SERVICE OFFICIALS A WRITTEN REPORT OF CONSULTATION AND RECOMMENDATIONS FOR THE IMPLEMENTATION OF WASH/OT/OP AS PART OF SUBPROJECT AND A SUMMARY REPORT OF FINDINGS.

3. WASH/OT/OP OFFICE AND DR. DURLIN AND DR. ZIMMELBERG WILL

HAYO GINCEPION. COU STATION OFFICIALS ARE DR. ALLISON AMAN AND DR. GUY MUGGON. JOURN TRAVEL WITHIN THE PROVINCE OF D. I. ACEH WILL BE REQUIRED AND SHOULD BE COORDINATED WITH THE COU STATION OFFICIALS UP TO 2 WEEKS WILL BE REQUIRED IN ACEH; BALANCE OF TRV WILL BE IN JAKARTA.

4. WASH CONSULTANT CLEARED FOR TRV BY MICHIGAN FIELD OFFICE ADVISE ETA 1-11-02 FOR ACCOMMODATION. WASH/OT/OP

UNCLASSIFIED



OTD #117

September 25, 1982

Technical Assistance in Evaluation of Foster Parents Plan
Water Projects - Indonesia

USAID/Indonesia requested WASH assistance with the technical aspects of evaluating the water projects of the private volunteer organization Foster Parents Plan. The social and health evaluation aspects are being conducted by the staff of Foster Parents Plan. To-date some 400-600 wells or spring sites have been developed as part of a 2,000 site program. The scope of work includes review of relevant project documents; interview with staff of AID, Foster Parents Plan, and ministries and with village committees; inspection of existing and planned water source sites; and preparation of an evaluation report. The report will consider suitability of location and effectiveness of existing wells and gravity systems, appropriateness of planned sites, construction program, technology selection and training, and the strengths and weaknesses of the overall program. For further information, contact Dr. R. Isely.

Up to twenty person days of effort, fourteen days of international/ domestic per diem and one international air round trip are authorized over a three month period. Local travel expenses not to exceed \$900 and local secretarial, graphics, reproduction and interpreter services not to exceed \$1200 are also authorized.

JEB/CIC
10/29/82

Water and Sanitation for Health (WASH) project
Order of Technical Direction (OTD) Number 117
September 25, 1982

TO: Dr. Dennis Warner, Ph.D, P.E.
WASH contract Project Director

FROM: Mr. Victor W. R. Wehman Jr., P.E., R.S. *VWR*
AID WASH Project Manager
AID/S&T/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of Work
for USAID/Indonesia and Foster Parents Plan Office in Yogyakarta,
Indonesia

REFERENCE: A) Jakarta 14191, dated 20 Sept 1982

1. WASH contractor requested to provide technical assistance to USAID/Indonesia and Foster Parents Plan/Indonesia as per Ref. A, para 1. Contractor will contact USAID/Indonesia and Plan to obtain more complete scope of work before consultant actually travels to Indonesia. More complete scope of work must be approved by AID WASH Project Manager and will become a part of this OTD as Reference B.
2. WASH contractor/subcontractor/consultants authorized to expend up to twenty (20) person days of effort over a 3 month period to accomplish this technical assistance effort.
3. Contractor authorized up to 14 person days of international/domestic per diem to accomplish this effort.
4. Contractor to coordinate with ASIA/TR/HNP (G. Curlin), ASIA/PD/ENGR (H. Hasan), ASIA/PD Officer for Indonesia, Indonesia Desk Officer and should provide copies of this OTD along with periodic progress reports as requested by S&T/H or ASIA Bureau.
5. Contractor authorized to provide up to one (1) international round trip from consultants home base through Washington to Jakarta, Indonesia to Yogyakarta, Indonesia to Washington D.C. (for Debriefing) to consultants home base
6. Contractor authorized local travel within Indonesia as necessary and appropriate to accomplish this technical assistance effort. Costs not to exceed (NTE) \$900 without prior written approval of AID WASH Project Manager.
7. Contractor authorized to obtain secretarial, graphics, reproduction, or interpreter services in Indonesia as necessary to accomplish tasks. These services are in addition to the level of effort specified in para 2 and para 3 above NTE \$1200 without the prior written approval of AID WASH Project Manager.
8. Contractor authorized to provide for car/vehicle rental if necessary to facilitate effort. USAID/Indonesia and/or Foster Parents Plan/Indonesia is encouraged to provide vehicles if available and as much as possible.

9. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract.
10. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.
11. Contractor to provide an overall final draft coordinated report to Foster Parents Plan/Indonesia and USAID/Indonesia (Health and PVO Offices) before consultant leaves Indonesia. Contractor to provide USAID with final report within 30 days of return of Consultant to the U.S.
12. New procedures regarding subcontractor cost estimates and justification of subcontractor and consultants remains in effect.
13. USAID/Indonesia and Foster Parents Plan/Indonesia should be contacted immediately and technical assistance initiated as soon as convenient to USAID and Foster Parents Plan Office in Yogyakarta.
14. Appreciate your prompt attention to this matter. Good luck.

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Department of State

INCOMING TELEGRAM

PAGE 01
ACTION AID-00

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WASH
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ACTION OFFICE ASSP-02
INFO ASEM-01 ASDP-02 ASPD-03 ASTR-01 STHE-01 SAST-01 ENGR-02
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FM AMEMBASSY JAKARTA
TO SECSTATE WASHDC 5536

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Wickham *UW*

UNCLAS JAKARTA 14191

AIDAC

EO 12356: N/A

SUBJECT. WASH SERVICES FOR PLAN

FOSTER PARENTS PLAN'S OFFICE IN YOGYAKARTA HAS REQUESTED THE SERVICES OF A WASH FUNDED SANITARY ENGINEER BETWEEN THE DATES OF OCTOBER 25 AND NOVEMBER 5 TO PARTICIPATE IN AN EVALUATION OF PLAN'S ONGOING AND IMPLEMENTED WATER PROJECTS. DETAILS OF PLAN EVALUATION ARE AVAILABLE FROM SHIRLEY BUZZARD OF THEIR WARWICK OFFICE. MISSION SUPPORTS THE REQUEST. MONJO

Received ST/H (Wickham) 9-23-82
Passed to WASH 9-24-82

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WATER AND SANITATION FOR HEALTH (WASH) PROJECT
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 117
AMENDMENT No. 1
November 03, 1982

TO: Dr. Dennis Warner, Ph.D., P.E.
WASH Contract Project Director

FROM: Mr. Victor W.R. Wehman, Jr., P.E., R.S. *9/10/82*
A.I.D. WASH Project Manager
A.I.D./S&T/HEA/WS

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of
Work for USAID/Indonesia

REFERENCES: A) OTD #117, dated 25 Sept 82

1. Para. 2 of subject OTD #117 (Ref. A) is cancelled. New para. 2 of
subject OTD #117 is now to read as follows:

"2. WASH contractor/subcontractor/consultants authorized to expend up
to thirty (30) person days of effort over a three (3) month period to
accomplish this technical assistance effort."

2. Nothing follows.



OTD #119

September 26, 1982

Technical Assistance in Planning the Evaluation of Water Supply,
Sanitation and Health Projects - Philippines

USAID/Philippines requested WASH assistance in planning the evaluation of several projects that have water supply, sanitation, health and community participation components. These include the PUSH Project (Panay Unified Services for Health), the BICOL Integrated Health, Nutrition and Population project and the Second Barangay Water Project. The scope of work includes reviewing relevant documentation, interviewing AID, Philippines government and UNICEF officials, and drafting a report outlining how the evaluation should be undertaken and what resources would be required. For further information, contact Dr. R. Isely.

Up to thirty person days of effort, twenty-six days of international/domestic per diem and one international air round trip are authorized over a six month period. Local travel not to exceed \$700 and local secretarial, graphics and reproduction services not to exceed \$1100 are also authorized.

JEB/CIC
10/30/82

Water and Sanitation for Health (WASH) Project
Order of Technical Direction (OTD) Number 119
September 26, 1982

TO: Dr. Dennis Warner, Ph.D., P.E.
WASH Contract Project Director

FROM: Mr. Victor W.R. Wehman Jr., P.E., R.S. *VWW*
AID WASH Project Manager
AID/S&T/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of Work
for USAID/Philippines

REFERENCES: A) Letter Cook (USAID)/Wehman (S&T/H/WS) dated 10 August 1982
B) Manila 21086
C) WASH Telex No. 354, dated 20 Sept 82
D) Manila 23491, dated 22 Sept 82

1. WASH contractor requested to provide technical assistance to USAID/Philippines as per Ref. A., para 3.
2. WASH contractor/subcontractor/consultants authorized to expend up to thirty (30) person days of effort over a 6 month period to accomplish this technical assistance effort.
3. WASH contractor authorized up to 26 person days of international/domestic per diem to accomplish this effort.
4. Contractor to coordinate with ASIA/TR/HNP (G.Curlin), ASIA/PD/ENGR (H. Hasan), ASIA/PD Officer for Philippines (J. Nussbaum), and Philippines desk officer, USAID/Philippines (Mr. G. Cook and Dr. S. Sinding) and should provide copies of this OTD along with periodic progress reports as requested by S&T/H and/or ASIA Bur staff.
5. Contractor authorized to provide up to one (1) international round trip from consultants home base through Washington D.C. to Manila, Philippines (and other areas within Philippines) and return to Washington D.C. (for debriefing) to consultants home base during this OTD
6. Contractor authorized to initiate local travel within Philippines to review and view USAID primary health care and water and sanitation projects at selected sites representative of USAID program. Local travel NTE \$700 without the written approval of the AID WASH Project Manager.
7. Contractor authorized to obtain local secretarial, graphics, reproduction, and interpreter services in Philippines as necessary and appropriate to accomplish tasks. These services are in addition to and above the level of effort specified in para 2 and 3 above NTE \$1100 without the prior written approval of the AID WASH Project Manager.

8. Contractor authorized to provide for car/vehicle rental if necessary and appropriate to facilitate effort. USAID and host country counterpart organizations encouraged to support WASH consultant with vehicle logistics if available and appropriate.
9. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract.
10. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.
11. Contractor to provide overall final draft coordinated report to USAID/Philippines (Health Office) before consultant leaves the Philippines. Contractor to provide USAID with final report within 30 days of return of consultant to the U.S.
12. New procedures regarding subcontractor cost estimates and justification of subcontractor and consultants remains in effect.
13. USAID/Philippines should be contacted immediately and technical assistance initiated as soon as convenient to USAID.
14. Appreciate your prompt attention to this matter. Good luck.

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
USAID/Philippines
APO San Francisco 96528

10 August 1982

Mr. Victor Wehman, Jr.
S&T/HEA 702 SA-18
Agency for International Development
Washington, D.C. 20523

Dear Vic:

I'm writing this letter to follow up on your short conversation with Steve Sinding while he was in Washington last month. Since he returned to Manila we've spoken with other Mission people on the subject of evaluating the health impact of water and sanitation projects. There seems to be some consensus that this may be a good time, and the Philippines a good place, to undertake such an evaluation.

As you know, both the PUSH and the Bicol Integrated Health, Nutrition and Population Projects have large water and sanitation components. Implementation of the second Barangay Water Project has just begun. An evaluation of not only the health impact of these projects but also a close look at other factors such as community participation might be instructive for the projects themselves and also for other countries.

The Mission would like to request that the WASH Project support a three-week TDY by Ray Isley to do a feasibility study for such an evaluation. During the first two weeks, he would meet with the many people and agencies involved. This would include, in addition to USAID staff, people responsible for PUSH, Bicol Integrated HNP Project, BWP and LWUA staff, and UNICEF. The third week would be spent preparing a draft report of how to undertake the evaluation and what resources would be required.

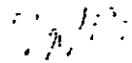
We'd suggest that he visit the Philippines sometime in September or October depending on his schedule.

Vic - let's discuss
D

If you can arrange for this TDY, it might be well for Ray to touch base with Steve Tourkin (BUCEN) who just completed an evaluation of the LWUA project.

I hope that WASH will be able to meet this request. If you have any questions, please write or cable.

Sincerely,


Gary W. Cook
Health Development Officer

cc: Maureen Norton, Chief, ASIA/DP/E, AID/W
Carlos Crowe, USAID/Philippines, OCD
Rick Rhoda, USAID/Philippines, PO

Received ST/H (Wichman) 8-19-82
Passed to WASH 8-19-82

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INFO AMEMBASSY COLOMBO

UNCLAS MANILA 23491

AIDAC

FOR AID/W, R. B. ISELY, WASH PROJECT
FOR USAID/COLOMBO, M. R. MEEHAN

E.O. 12356: N/A

SUBJECT: FEASIBILITY OF EVALUATING BICOL AND PUSH WS&S
- PROJECT COMPONENTS

REF: YOUR TELEX 354

CONCUR. PLEASE PROVIDE ETA WHEN ABLE. RICH

5631 SA-18
Mc Junkin
Austin
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Received 57/14 (Welman) 9-24-82
Passed to WASH 9-24-82

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Western Union International, Inc.

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27366 RME PH
OUR TELEX 354

TO: GARY W. COOK
USAID/MANILA

FROM: R.B. ISELY
WASH PROJECT

COPY TO: MR. F.E. MCJUNKIN
C/O M.R. NEEHAN
USAID/COLOMBO

RE: FEASIBILITY OF EVALUATING BICOL AND PASH WS+S PROJECT COMPONENTS

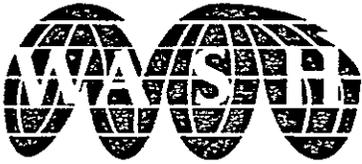
RETEL: MANILA 21086

UNABLE TO LOCATE SUITABLE CONSULTANT FOR WORK WITHIN PROPOSED TIME
FRAME. SUGGEST THEREFORE YOUR THIRD OPTION FOR ISELY TO COME IN EARLY
JANUARY. PLEASE ADVISE IF YOU CONCUR. THANK YOU. JA

27366 RME PHMMMMMM
001.7 NIN

national Telex

WESTERN UNION



OTD #123

October 5, 1982

Technical Assistance in Design and Delivery of a
Training Workshop on Management Team Building - Thailand

AID/Thailand requested WASH training assistance in designing and delivering a training workshop on management team building for the Provincial Waterwork Authority (PWA) of Thailand. The workshop is seen as a first step in future PWA activities to strengthen its management and its training capability. Most of the workshop will be conducted in Thai. Consultant Dan Edwards will assist in the workshop November 1-5.

For further information, contact Mr. F. Rosensweig.

Up to thirty-five person days of effort, twenty days of international/domestic per diem and one international air roundtrip are authorized over a four month period. Local transportation, secretarial, graphics and reproduction services up to \$1,000 and up to \$1,000 for production of training materials are also authorized.

JEB/CIC
10/2/82

OTD # 123

WATER AND SANITATION FOR HEALTH (WASH) PROJECT
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 123

October 5, 1982

TO: Dr. Dennis Warner, Ph.D., P.E.
WASH Contract Project Director

FROM: Mr. Victor W.R. Wehman, Jr., P.E., R.S. *VWRW* *DH*
AID WASH Project Manager
AID/ST/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of
Work for USAID/Thailand

REFERENCE: A. BANGKOK 53015, dated 28 Sep. 1982
B. Management and Training Workshop
C. Team Building for Improved PWA Operations
D. Action Plan for Workshop
E. Needs Assessment for PWA

1. WASH contractor requested to provide technical assistance to USAID/Thailand as per Ref. A, para. 3; Ref. B, C, D, and E.
2. WASH contractor/subcontractor/consultants authorize to expend up to 35 person days of effort over a four month period to accomplish this technical assistance effort.
3. Contractor authorized up to 20 person days of international and/or domestic per diem to accomplish this effort.
4. Contractor to coordinate with Asia (Regional Bureau), AID/Thailand Desk Officer and should provide copies of OTD #123 along with final report as requested by S&T/H.
5. Contractor authorized to provide up to one international round trip from consultants' home base through Washington, D.C. to Bangkok, Thailand, and return to home base through Washington, D.C. during life of OTD.
6. Contractor authorized up to one internal round trip from Bangkok to workshop location.
7. Contractor authorized to obtain secretarial, graphics, or reproduction services in Thailand as necessary to accomplish tasks. These services are in addition to the level of effort specified in paragraphs two and three above and NTE \$1,000.00 without prior approval of A.I.D./WASH manager.
8. Contractor authorized to expend up to \$1,000.00 for the training materials for the development or printing/support services associated with item (in cable references).

9. Contractor authorized to provide for car or vehicle(s) rental or taxi if necessary to facilitate effort. Mission or PWA is encouraged to provide vehicles, if available.

10. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract.

2 e Sept 82
ACTION COPY

UNCLASSIFIED
Department of State

INCOMING TELEGRAM

PAGE 01 BANGKO 51015 281152Z 8258 251157 A104125
ACTV:01 410-02

BANGKO 51015 281152Z 8258 251157 A104125

THUC THE SUCCESS OF THIS EFFORT IS VERY IMPORTANT TO THEM.

5 WE APPRECIATE YOUR CONTINUED SUPPORT OF IWESD ACTIVITIES IN THAILAND FOR

ACTION OFFICE 07-05-81
INFO ASEM-01 ASPT-03 ACCP-03 ASPD-03 ACTR-01 ASST-01 ENGR-02
RELO-01 DAEN-01 TACT-01 1815 14 828

INFO OCT-82 4*10-81 /016 W
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R 201154Z SEP 82
FM AMEMBASSY BANGKOK
TO SECSTATE WASHDC 9913

UNCLAS BANGKOK 51015

AIDAC

FOR VIC WENHAM, SGT/MEA

EO 12858- NA
SUBJ. WATER AND SANITATION: WASH AND SGT/MEA ASSISTANCE

REF A. BANGKOK 51015, S. HANSON 83713,
C. COMPTON, DALE RODENBERG TO COT DATED
15 SEPTEMBER 1982

1. WE HAVE DISCUSSED PVA WORKSHOP WITH PVA AND
CONF PM OUR REQUEST FOR SGT/MEA AND WASH ASSISTANCE
FOR PERIOD NOV THROUGH NOVEMBER 1992.

2. MISSION IS PREPARED TO PAY TRAVEL AND PER DIEM
COSTS FOR AUSTIN. FUND CITATIONS WILL BE PROVIDED AS
SOON AS AVAILABLE IN FY 83.

3. MISSION REQUESTS WASH SERVICES FOR FOLLOWING
SCOPE OF ACTIVITIES:

- A. USING BASIC DATA COLLECTED BY COOPERS AND
LYSTRAND AND PVA CONSULTANTS (BEING HAND CARRIED BY
AUSTIN) DEVELOP A MANAGEMENT TRAINING WORKSHOP IN
COORDINANCE WITH DRAFT OUTLINE DEVELOPED BY PVA AND
AUSTIN (ALSO BEING HAND CARRIED BY AUSTIN).

B. WORKSHOP SHOULD INCORPORATE EXPERIENTIAL
LEARNING TECHNIQUES AND PARTICIPANT PARTICIPATORY
EXERCISES TO DEMONSTRATE TEAM BUILDING. MATERIAL
SUPPLIED IN EA ABOVE SHOULD BE SUFFICIENT TO PROVIDE
RAW DATA FOR THIS.

C. STEP BY STEP ACTION PLAN HAS BEEN DEVELOPED
BY PVA BEING HAND CARRIED BY AUSTIN AND WE REQUEST
WASH ASSISTANCE WITH IT/ONS SO DESIGNATED.

D. MAJOR PORTION OF WORKSHOP WILL BE CONDUCTED
IN THAI. TRANSLATION OF WRITTEN MATERIALS WILL BE
DONE BY PVA. ANY MATERIALS DEEMED NECESSARY FOR
TRANSLATION SHOULD REACH US AT LEAST BY DATES ON
ACTION PLAN SO THAT TRANSLATION CAN BE ACCOMPLISHED
ON TIME.

E. INTERPRETERS (PROBABLY PVA STAFF) WILL BE
AVAILABLE FOR NON-THAI SPEAKERS

F. PVA SUGGESTS THAT AUSTIN AND WASH CONSULTANT
ARRIVE FOR FINAL PLANNING OF WORKSHOP NO LATER THAN
25 OCTOBER. IF YOU WANT EARLIER ARRIVAL IS
NECESSARY, PLEASE LET US KNOW AS SOON AS POSSIBLE.

G. PVA HAS RECENTLY CREATED THE MANPOWER DEVELOPMENT
GROUP MAJOR EFFORT TO FOCUS ON LOWER LEVEL PERSONNEL
REQUIREMENTS OF THE TOP CDS IN PVA TRAINING NEEDS.

McJunkin
Austin
~~W. Wehman~~ W.W.

Received ST/H (Wehman) 9-29-82
Passed to WASH 9-29-82

UNCLASSIFIED

1 Sept 82
Chulachomay
Files
Draft 1

MANAGEMENT AND TRAINING WORKSHOP

1. Venue : Hotel at Pattaya (not definite yet)
2. Duration : 5 days workshop (1-5 November 1982)
3. Participants : 30 (staff at administrative level
from grade 9 onward)
4. Instructor : 2-3
5. Resource Personnel : C&L, K-K, ILO, and others.
6. Translator : 1
7. Secretarial : 2 (Minimum)
8. Supplies/Equipments:
Overhead projector, overhead projector pens,
Transparencies
Screen
Flipchart
Typewriters, correction fluid
Duplicating machine
Files, typing paper, stencils, stappers, scotch tape etc.

Course Schedule
FOR MANAGEMENT AND TRAINING WORKSHOP

| DAY | DATE | 10.00 - 10.30 | 10.30 - 10.45 | 10.45 - 11.00 | 11.00 - 12.00 | 12.00 - 1.00 | 1.00 - 1.30 | 1.30 - 1.45 | 15.00 | 15.20 | 15.45 - 16.00 |
|-----------|------|---|---------------|---|---------------|--------------|-------------|-------------|-------|-------|----------------------------------|
| MONDAY | 1 | | | | | | | | | | |
| NOVEMBER | | | | TOUR AND VISIT WATERWORKS ON THE WAY TO PATTAYA | | | | | | | 1500 GROUP MEETING |
| TUESDAY | 2 | OPENING CEREMONY - CHAIRMAN OF THE BOARD OF DIRECTORS | | UNRESTRICTED AND COMMITMENT TO CONCEPTS OF THE COURSE | | | | | | | 1700 LUNCH AND RECEPTION/DEPART |
| WEDNESDAY | 3 | PRESENTATION DISCUSSIONS AND REVISIONS AND METHODS | | DR. JOHN MURPHY - MR. WILLIAM TERRY | | | | | | | 1800 GROUP SESSION (1520 - 1600) |
| THURSDAY | 4 | TRAINING CONCEPTS AND METHODS | | WORK GROUP (1000 - 1130) GROUP SESSION (1130 - 1200) | | | | | | | GROUP SESSION (1600 - 1630) |
| NOVEMBER | | | | IWA TRAINING, METHODS AND CONCEPTS | | | | | | | WORK GROUP (1520 - 1600) |
| FRIDAY | 5 | DISCUSSION LEADER DR. JOHN MURPHY & OTHERS | | ON. MIXTAL | | | | | | | GROUP SESSION (1600 - 1630) |
| NOVEMBER | | | | MARK DISCUSSION | | | | | | | TRAINING, METHODS (PRACTICE) |
| | | | | CRITIQUE AND CONCLUSION | | | | | | | GROUP SESSION |
| | | | | CLOSING CEREMONY | | | | | | | |

approach
gh

TEAM BUILDING FOR IMPROVED

PWA OPERATIONS -

AN INTRODUCTION

1-5 NOVEMBER 1982

HOTEL

PATTAYA THAILAND

PRESENTED BY

MANPOWER AND DEVELOPMENT TRAINING DEPARTMENT

PWA

AND

AGENCY FOR INTERNATIONAL DEVELOPMENT

BANGKOK

PURPOSE

This workshop is just the beginning of a series of workshops to be conducted by the Manpower Development and Training Department of PWA to develop management skills for its mid and upper-level personnel. This first workshop will be composed of those persons most likely to fill the upper-level positions as promulgated by the Board in June 1982.

This workshop will allow the participants to utilize various techniques used in experiential learning to analyze certain PWA problems identified by the C&L and K-K studies, and then go on to suggesting alternative solutions to these problems. The procedures used in the workshop will be those used in team building efforts. This will give the participant the opportunity to learn about and practice techniques that are expected to be a part of the PWA's reorganization.

OVERALL TRAINING APPROACH

The experiential learning or participant centered approach to be used in this workshop is one widely used by management training institutions. The basic premise is that experience and learning are closely linked. Thus during the workshop learning takes place not only on a cognitive level but also through integrative and highly experiential activities. This process emphasizes the acquisition of practical skills and knowledge needed by managers in the day to day operation of an entity such as PWA.

The experiential model which will be used in this workshop can be summarized as follows:

1. Participants will carry out experiences;
2. Share responses to the experience;
3. Generalize key learnings; and
4. Apply them to workshop activities and actual problems identified by the C&L and K-K evaluations.

The trainers assisting with the workshop will assist the participants in this process, and provide appropriate theoretical and practical inputs based on similar experiences in other countries.*

Each of the activities in the workshop is designed so that each participant will be actively involved in the learning process. This means that the responsibility for learning is shared between the trainer and the participant. The trainer is responsible for creating and implementing a thoughtful, systematic training design, based on experiential learning principles, and for creating the conditions for an appropriate learning environment. Participants share equal responsibility for generating the latter, and they are responsible for actively taking advantage of the design to maximize their learning.

Each person in the training environment, then, is responsible for learning and, ultimately, for the success of the course. This implies two things. First, it assures that learning does not happen to people; rather it happens because people are actively engaged in the learning process. Second, it implies that knowledge is shared, that the trainer is not an omniscient expert, and that everyone has something to contribute to the learning process.

BACKGROUND PREPARATION FOR WORKSHOP

With the changes made in the management structure of PWA by the Board in June 1982, and the findings recently released in the studies by C&L and K-K it was decided that additional management training would be useful to the upper-levels of PWA. The skills and knowledge required to effect the transaction from the existing to the proposed PWA structure may require some emcumbnants to evaluate their present mode of operation in leadership, supervision, planning and implementation and seek ways to

* The model to be used in this workshop has been on recent work by James McCaffern, Dan Edwards, and John Pettit in work with organizations similar to PWA in Guyana, Indonesia, and Tanzania.

alter, modify or even adopt new techniques. This workshop will offer the participant the opportunity to do just this. The participants will have an opportunity to experience the skills they need to manage their staffs and carry out their assigned responsibilities. Working together then will join in special training exercises that will oblige them to analyze complex situations, weight possible causes of why the problem-occurs and synthesize this information into alternative solutions. The solving of these types of problems through participation in realistic simulations, role playing and working in small groups will lead to the development of practical action plans.

In order for the trainers to obtain a realistic appraisal of what the potential participants saw as their needs, a "Needs Assessment" instrument was developed and administered by the Manpower Development and Training Department. The Needs Assessment instrument was completed by 17 headquarters staff and the following results were obtained:

TABLE 1. Ranking by level of importance and development required

| ROLE | RANKING/NO. OF RESPONSE | |
|--------------|-------------------------|-------------------|
| | LEVEL OF IMPORTANCE | DEVELOPMENT REGD. |
| Group Leader | 1/15 | 4/10 |
| Res All | 2/13 | 5/10 |
| " | 3/13 | 1/14 |
| " | 4/12 | 2/14 |
| " | 5/11 | 3/12 |
| " | | |
| " | | |
| " | etc. | etc. |
| 10 | | |
| 11 | | |

The results of this needs assessment were used to develop the points of emphasis in this first workshop.

PREPARATION FOR WORKSHOP

About two weeks prior to the workshop each participant will receive a summary of certain material from the C&L and K-K reports. This should be studied carefully, and for that material that you have something to do with you should be prepared to be a resource person at the workshop. This means you may want to bring data with you for use at the workshop.

In addition you should review the ten roles delineated in the "Needs Assessment" instrument and clarify with Khun Chatchawan any ambiguities you may have.

To further ready yourself for the workshop, in addition to the above, you might ask yourself the following questions for those problems and roles pertinent to your job.

1. a) What are your employees doing that they should not be doing?
b) When you correct your employees for doing things wrong, what specific things do you ask them to avoid?
2. a) What are your employees doing that they should not be doing?
b) When you envision your staff or employees doing their jobs properly, what do you see them doing?
c) What specific things would you like to see them doing but you do not?
d) When you walk up to employees to tell them they are doing well, what specific things do you praise?

WORKSHOP SCHEDULE

The proposed workshop schedule is given on the following page:

Details of the conduct of the workshop will be given to participants at the Tuesday AM Session.

The basic approach to be used in the four Work Sessions is as follows:

1. Basic data will be presented for each problem to be analyzed.
2. A set of directions will be given to each subgroup (composed of 5 or 6 people) as to the procedures to be used in the analysis of the problem.
3. The subgroup will develop one or more alternative solutions to the problem and record this on a summary sheet. This will be submitted for typing and shared with the other subgroups for discussion.
4. Each subgroup will select a spokesman for discussing the subgroup's findings before the entire group. Each subgroup will be responsible for integrating comments made in the general discussion into their report.

On Thursday evening each group will assist in combining their individual report into a combined workshop report, for discussion on Friday morning.

WORKSHOP OUTCOMES

The following outcomes are expected to be achieved during this workshop.

1. Introduce and implement various teambuilding techniques in analyzing problems and synthesizing solutions to problems.
2. Utilizing the above techniques, develop alternative solutions to PWA problems, both during the transition phase and for the long term.

8.30 - 10.20

10.20-10.40

10.40 - 12.00

12.00-13.00

13.00 - 15.00

15.00-15.20

15.20 - 16.30

| | | | | | | | |
|------------------------|---|----------|--|----------|--------------------------------------|--------------|--|
| MONDAY 1 NOV. | | | | - SAME - | | | |
| TUESDAY 2 NOV. | | - SAME - | | | WORK SESSION | | LEADERSHIP STYLE |
| WEDNESDAY 3 NOV. | REVIEW DISCUSSION LEADERSHIP STYLE | | WORK SESSION NEGOTIATOR - DISTURBANCE HANDLER | | | | REVIEW DISCUSSION NEGOTIATOR - DISTURBANCE HANDLER |
| THURSDAY 4 NOV. | WORK SESSION CHANGE AGENT | | | | REVIEW DISCUSSION CHANGE AGENT | WORK SESSION | RESOURCE ALLOCATION/ THUR. EVENING PREPARE FINAL REPORT |
| FRIDAY 5 NOV. | | | | - SAME - | | | |

PROVINCIAL WATERWORKS AUTHORITY
THAILAND

MANPOWER DEVELOPMENT AND TRAINING DEPARTMENT

ACTION PLAN FOR WORKSHOP DEVELOPMENT TEAMBUILDING FOR
IMPROVED PWA OPERATIONS- AN INTRODUCTION

1-5 NOVEMBER 1982

PATTAYA, THAILAND

PREPARED BY:

MR. JOHN H. AUSTIN, CONSULTANT, IBRD

MR. WILLIAM FINLEY, PWA ADVISER

MR. CHATCHAWAN PHANTANEE, HEAD, MTD./PWA

MRS. SIRIPORN LEK-UDOM

WORKSHOP ACTION PLAN
1-5 NOVEMBER 1982

| NO. | ACTION REQUIRED | BY WHOM | BY WHEN |
|-----|--|----------------------------------|--------------------|
| 1. | Send needs assessment instrument to 15 Regional Directors, add request for typical problems. | Chatchawan | 23 SEPT. |
| 2. | Tabulate results of 15 Regional Directors. | " | 29 SEPT. |
| 3. | Tabulate combined results of all respondents. | " | 30 SEPT. |
| 4. | Devise group listing of comments by respondents which may be pertinent to workshop planning process. | " | 30 SEPT. |
| 5. | Send results of 3, 3 & 4 to Austin. | Siriporn | 1 OCT. |
| 6. | FKA review first draft of workshop announcement and prepare 2 nd draft. | Chatchawan Finley Siriporn | 29 SEPT |
| 7. | Mail 6 to Austin. | Siriporn | 1 OCT. |
| 8. | Austin & Edwards comment on 2 nd draft of announcement and return to FKA. | Austin | 12 OCT. |
| 9. | Announcement distributed to participants. | Chatchawan | 15 OCT. |
| 10. | Craft cable for AID/Bangkok to AID/ST/HIA to request Austin and WASH assistance for workshop | Austin | 23 SEPT. |
| 11. | Respond to AID/Bangkok cable (10) | Austin | 7 OCT. |
| 12. | Select HQ. and regional reports for possible inclusion in data base for workshop. | Finley Somporn | 7 OCT. |
| 13. | Watch problem areas with roles to be included. | Finley Chatchawan | 30 OCT. |

- | | | | |
|-----|--|------------------------|----------|
| 14. | Final copy of all press to be used with each role. | Finley Chatchawan | 30 SEPT. |
| 15. | Collect data for use on each problem and send to Austin. | Siriporn Somporn | 1 OCT. |
| 16. | Develop summary of each problem to be given to participants | Chatchawan | 15 OCT. |
| 17. | Develop case history statements. | Austin | 18 OCT. |
| 18. | Send 1st draft of case histories to PWA. | Austin | 18 OCT. |
| 19. | Develop directions for use of each case histories. | Austin | 18 OCT. |
| 20. | Send directions for each case history to PWA. | Austin | 18 OCT. |
| 21. | Correct on summary statement. | Austin | 25 OCT. |
| 22. | Enclose summary statement to participant. | Siriporn | 20 OCT. |
| 23. | Develop format for subgroup reports. | Austin | 1 OCT. |
| 24. | Send draft (23) to PWA. | Austin | 1 OCT. |
| 25. | Return draft (23) to Austin. | Siriporn | 25 OCT. |
| 26. | Develop format for workshop report. | Austin | 1 OCT. |
| 27. | Send draft (26) to PWA. | Austin | 1 OCT. |
| 28. | Return draft (26) to Austin | Siriporn | 25 OCT. |
| 29. | Assign responsibilities for each workshop session. | Chatchawan | 22 SEPT. |
| 30. | Draft activities, who responsible, supplies, materials, AV aids, people, venue, etc. for each session. | Chatchawan Austin | 18 OCT. |
| 31. | Send these (30) to PWA | Austin | 18 OCT. |
| 32. | Develop list of all talent needed to run workshop. | Chatchawan Siriporn | 15 OCT. |

| | | | |
|-----|--|------------|---------|
| 33. | select names of individual to fill roles | Chatchawan | 15 OCT. |
| 34. | Notify people of role and obligations. | " | 20 OCT. |
| 35. | Develop training for each group of persons in 34. | " | 25 OCT. |
| 36. | Determine supplies, materials, transportation, space requirements for each person in 34. | " | 25 OCT. |
| 37. | Deliver training for each person in 34. | " | 29 OCT. |
| 38. | Finalize list of participants including full name, name for westerners to use at workshop (title as of date of workshop) and evaluation of attitude of each in relation to approach to be used in workshop and name of university where they receive their MS. or PhD. in sanitary eng. (where applicable) | " | 8 OCT. |
| 39. | Send 38 to Austin | Sriporn | 8 OCT. |
| 40. | Finalize workshop schedule. | Chatchawan | 25 OCT. |
| 41. | Select and prepare work site for week of 25 oct. to prepare for workshop at PWA. | Chatchawan | 22 OCT. |
| 42. | Ordering materials, supplies, etc. for workshop. | Chatchawan | 29 OCT. |
| 43. | Prepare handout materials for workshop. | " | 29 OCT. |
| 44. | Schedule to work with workshop team for week of 25 oct. | Chatchawan | 22 OCT. |

PROFESSIONAL MANAGERIAL CAPABILITY

NEED ASSESSMENT

This form is based on a detailed study of senior managers. The results of the study show that there were ten major roles that managers had to play in the course of their jobs. In order to assist us in the planning of your training, we would like you to examine these managerial roles and see how far your job uses the skills involved. The following roles (and more if you need to) are a good basis to identify where you feel the need to further extend your skills.

Using the following scale, please mark the appropriate places.

| <u>Level of Importance</u> | <u>Development Required</u> |
|------------------------------|---|
| A = Very important to my job | 1 = Need to develop my ability to perform this role |
| B = A normal part of my job | 2 = Experienced at playing this role, but need to keep up to date with current approaches |
| C = A minor part of my job | 3 = No need to spend more time at present or further develop my ability to play this role |

To what extent does my job demand that I take on the following roles?

| | <u>Level of Importance</u> | <u>Development Required</u> |
|--|---------------------------------|---------------------------------|
| 1. To manage a group of duties such as: work, travel or public speaking in the workplace or elsewhere | A = 3 B = 10 <u>C = 3</u> | 3 = 2 2 = 4 <u>1 = 5</u> |
| 2. To act as being the person accountable for managing a group of people to resolve problems and other on issues of action | A = 15 B = 2 <u>C = -</u> | 3 = 10 2 = 5 <u>1 = -</u> |

17 total

| <u>Level of importance</u> | <u>Development required</u> |
|----------------------------|-----------------------------|
| 1. Group leader 15 | 1. Entrepreneur 12 |
| 2. Resource Allocator 13 | 2. Disturbance Handler 14 |
| 3. Entrepreneur 13 | 3. Negotiator 10 |
| 4. Disturbance Handler 12 | 4. Group Leader 10 |
| 5. Negotiator 11 | 5. Resource Allocator 10 |

| | Level of Influence | Development Preference |
|---|--------------------------|---------------------------|
| 1. Liaison = making contact with other groups on behalf of your own group to resolve problems and get work done | A = 88 B = 9 C = - | 3 = 6 2 = 2 1 = 3 |
| 4. Information = acquisition and dissemination of information both in own group and throughout the organization | A = 6 B = 7 C = 3 | 3 = 0 2 = 3 1 = 5 |
| 5. Spokesman = representing the organization to the "outside world" in promoting its "cause through public relations or similar activities" | A = 5 B = 6 C = 5 | 3 = 6 2 = 11 1 = 5 |
| 6. Entrepreneur = engaging in activities to develop new ideas, improve, and make changes that are designed to develop the organization from its present condition to a new form | A = 13 B = 3 C = - | 3 = 14 2 = 2 1 = - |
| 7. Resource Allocator = deciding who gets what work, rewards, budgets, and other resources | A = 13 B = 3 C = - | 3 = 10 2 = 6 1 = - |
| 8. Disturbance Handler = responding to, removing, and acting upon unexpected changes, conflicts, and pressures in the work situation | A = 12 B = 3 C = 1 | 3 = 14 2 = 1 1 = 1 |
| 9. Negotiator = bargaining as an integral part of getting the "deal", whether it be with staff, suppliers, or inside parts of the organization | A = 11 B = 4 C = 1 | 3 = 12 2 = 3 1 = 1 |

| | Level of importance | Development priority |
|--|--------------------------|-------------------------|
| 10. Personal + being by oneself to think, write, compute, plan, or do other work which demands individual managerial skill | A = 10 B = 3 C = 1 | 3 = 4 2 = 5 1 = 1 |
| 11. _____ _____ _____ _____ | _____ | _____ |
| 12. _____ _____ _____ _____ | _____ | _____ |



OTD #128

December 15, 1982

Coordination/Collaboration on
Water and Sanitation in Asia - S&T/H/WS

WASH was requested by the Office of Health to support the service of Dr. Peter Bourne as keynote speaker at the International Seminar on Human Waste Management for Low-Income Settlements, in Bangkok, Thailand, January 16-22, 1983, sponsored by the Asian Institute of Technology and others. The seminar will be attended by water supply, sanitation, health and housing officials from Asian, African, and Latin American Countries who will have an excellent opportunity to learn about the WASH Project and how its services may be made available to them through AID Missions.

For further information, contact Mr. D. Donaldson

Up to two person days of effort, nine days of international per diem, and up to \$300 for miscellaneous expenses are authorized.

JEB/CIC
1/5/83

DEC 16 1982

WATER AND SANITATION FOR HEALTH (WASH) PROJECT
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 128
December 15, 1982

TO: Dennis Warner, Ph.D., P.E.
WASH Contract Project Director

FROM: Victor W.R. Wehman, Jr., P.E., R.S. *VWW*
AID WASH Project Manager
AID/ST/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of
Work for S&T/H/WS for coordination/collaboration on LDC Water
and Sanitation in Asia

REFERENCE: A) Letter: Bourne to Warner dated 23 November 1982

1. WASH contractor requested to provide technical assistance to S&T/H/WS as per Reference A to have Dr Peter Bourne represent WASH at the regional conference on sanitation at AID/Bangkok as well as interact with other water and sanitation organizations.
2. WASH contractor/subcontractor/consultants authorized to expend up to two (2) person days of salaried effort (including report) over a one month period to accomplish this technical assistance effort.
3. Contractor authorized up to nine person days of international per diem to accomplish this effort.
4. Contractor to coordinate with Peter Bourne (Global Water), S&T/H/WS (Vic Wehman) and should inform Thailand desk officer and ASIA/TR/HMP (Curlin) of this activity. Contractor should provide copies of OTD #128 as requested by S&T/HEA.
5. Contractor authorized no international or domestic travel under this OTD. Dr. Bourne's air fare and local travel expenses are to be paid by sources other than the WASH project.
6. Contractor is to have Dr. Bourne prepare a report that should review his discussions with conference participants and others relating to targets of opportunity involving water supply and sanitation. The report should include targets of opportunity especially related to AID programs in Nepal, Burma, India, and Pakistans. Dr. Bourne is authorized up to \$300 for miscellaneous expenses.

7. All secretarial support for preparation of the report is the responsibility of Dr. Bourne. WASH will not provide these services for the preparation of the report.

8. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract.

9. Contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.

10. New procedures regarding subcontractors cost estimates and justification for selections of consultants/subcontractors remains in effect.

11. USAID/Thailand and Dr. Bourne should be contacted immediately and technical assistance initiated ASAP. Good luck.

JHA/ddc

GLOBAL WATER

2033 M Street, N.W., Suite 300, Washington, D.C. 20036
(202) 466-3528

November 23, 1982

Peter G. Bourne
President

Board of Directors

Edwin L. Cobb
Chairman

Peter G. Bourne
Frank Butrico
Stephanie Loiacono
John W. McDonald Jr.
Arthur H. Purcell
Dennis B. Warner

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Maurice F. Strong
Thomas W. Wilson, Jr.
Gerald F. Winfield
Abel Wolman
Hon. Andrew Young

Dr. Dennis B. Warner
The WASH Project
1611 N. Kent Street
Room 1002
Arlington, VA.

Dear Dennis:

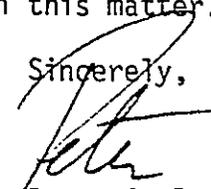
I plan to be in Thailand for nine days in the middle of January 1983. During that time I will be giving the keynote address at a regional conference on sanitation sponsored by the Asian Institute of Technology. I also plan to meet with various governmental and non-governmental leaders involved in water and sanitation projects including following up on a meeting I had earlier this year with ~~Mechai Virawit~~ Mechai Virawit to discuss the rainwater harvesting program he has initiated in N.E. Thailand.

I would be very happy to use this opportunity to represent WASH and look for targets of opportunity for the program. In conjunction with the conference, I will be meeting with representatives from 10 Asian countries and also participants from 8 African and Latin American countries. This will provide a unique opportunity to build a network for WASH among those working most directly in the field of low cost sanitation. I also anticipate that I will be visiting several local projects in the Bangkok area.

In connection with this opportunity to promote and make people aware of WASH's activities I would like to request per diem for the nine days I will be in Bangkok. If this is agreeable I would then clearly identify myself as being in Thailand representing WASH.

Thank you for your consideration in this matter.

Sincerely,


Peter G. Bourne, M.D.
President

OTD #133

February 7, 1983

Feasibility Study and Planning of Water Supply and Sanitation
Systems for Private Volunteer Organizations - Indonesia

AID/Indonesia requested WASH to provide assistance to several private volunteer organizations (PVOs) operating in Irian Jaya, Indonesia. WASH will assist the Mission in making a feasibility study and plan for a PVO Operating Grant project involving 70-80 small scale water systems and the World Relief Corporation in the Minyambou area of Irian Jaya. WASH will also assist the PVO Development Information Service in planning a water supply and sanitation project in the Jaya Paura of Irian Jaya.

For further information, contact Dr. R. Isely.

Up to forty person days of effort, thirty one days of international/ domestic per diem, and four domestic Indonesian trips Jakarta-Irian Jaya round trips are authorized over a four month period. Up to \$600 for local secretarial, graphics or reproduction services are authorized, as is up to \$2,600 for automotive or small aircraft rental.

JEB/CIC
2/11/83

WATER AND SANITATION FOR HEALTH (WASH) PROJECT
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 133
February 7, 1983

FEB 9 1983

TO: Dr. Dennis Warner, P.E.
WASH Contract Project Director

FROM: Victor W.R. Wehman, Jr., P.E., R.S.
AID WASH Project Manager
AID/ST/H/WS

JWW

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of
Work for USAID/Indonesia and Care/Indonesia

REFERENCE: A) Jakarta 18964, 22 Dec 82
B) Jakarta 18849, 20 Dec 82
C) STATE 2017, 5 Jan 83
D) Isely Memo, dated 2/4/83
E) Jakarta 00221, 6 Jan 83
F) Jakarta 01433, 27 Jan 83
G) WASH Telex No. 532, 4 Feb 83
H) WASH Telex No. 505, 14 Jan 83

1. WASH contractor requested to provide technical assistance to
USAID/Jakarta and Care/Jakarta as per reference D, para. 2, 3, as follows:

(a) to assist USAID/Jakarta Mission in developing a feasibility
assessment and plan for a PVO/OPG project involving 70 - 80
small scale water systems in Minyambou area with the World
Relief Corporation, and,

(b) to assist the Development Information Service (a PVO) in
planning a water supply and sanitation project in the Jaya Pauva
area.

2. WASH contractor/subcontractor/consultants authorized to expend up to 40
person days of effort over a four (4) month period to accomplish this
technical assistance effort.

3. Contractor authorized up to 31 person days of international and/or
domestic per diem to accomplish this effort.

4. Contractor to coordinate with ASIA/TR/HN, USAID/Jakarta and AID/W
Indonesia Desk Officer and should provide copies of OTD #133 along with
periodic progress reports as requested by S&T/HEA or ASIA Bureau.

5. Contractor authorized to provide up to zero (0) international round trips from consultant's home base through Washington, D.C. to Jakarta, Indonesia and return to home base through Washington, D.C. during life of OTD.
6. Contractor authorized to provide up to four domestic internal Indonesian round trips from Jakarta to Minyambou Iran Java, Jaya Pauva as required.
7. Contractor authorized to obtain secretarial, graphics or reproduction services in Indonesia as necessary to accomplish tasks. These services are in addition to the level of effort specified in paragraph 2 and 3 above and NTE \$600 without prior approval of AID WASH Project Manager.
8. Contractor authorized to provide for car, vehicle(s) or small aircraft rental if necessary to facilitate effort. Mission is encouraged to provide Mission vehicles, if available. Effort NTE \$2600 without prior written approval of AID WASH Project Manager.
9. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract.
10. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors as required to carry out this task.
11. Contractor report on overall progress of activity is to be made in writing . A coordinated draft report should be left with USAID/Indonesia upon return of consultant to Jakarta. USAID/Indonesia is encouraged to provide secretarial support, if available, to consultant for typing of draft report. Final report is due to USAID/Indonesia, S&T/H/WS and WASH within 30 days after consultant turns in coordinated draft report to USAID/PVO Officer. WASH consultants coordinated draft report to be air pouched by USAID/Jakarta to S&T/H/WS (V. Wehman) and concurrently airmailed by WASH consultant to WASH Project Director (see address on brochure).
12. New procedures regarding subcontractor cost estimates and justification for selection of consultants remains in effect.
13. Mission should be contacted immediately and technical assistance initiated.
14. Appreciate your prompt attention to this matter. Good luck!

ACTION
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INCOMING
TELEGRAM

PAGE 11 JAKART 18964 220533Z 4844 020676 AID0044

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| ACTION OFFICE | STLE-01 | | | | | | |
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| | STMD-01 | SAST-01 | ENGR-01 | HHS-09 | STEN-01 | RELO-01 | STRP-01 |
| | DFEN-01 | MAST-01 | ASSP-02 | 032 45 | 823 | | |

REF A

INFO OCT-00 COPY-01 ARA-00 /032 W
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FM AMEMBASSY JAKARTA
TO SECSTATE WASHDC 7963

UNCLAS JAKARTA 18964

C O R R E C T E D C O P Y (TEXT: PARA III)

AIDAC

FOR CARL MCJUNKIN

EO 12356 N/A

SUBJECT: EVALUATION CARE INDONESIA RURAL KATER SUPPLY PROJECT

1. HAVE AGREED WITH ELLIS FRANKLIN, DIRECTOR OF CARE/INDONESIA AS TO UTILITY OF AN EVALUATION OF CARE'S RURAL WATER PROJECT. SINCE 1980 CARE HAS CONSTRUCTED 70 SMALL SCALE RURAL WATER SYSTEMS COMPRISING 500 WELLS AND NUMEROUS GRAVITY FLOW SYSTEMS IN OVER 100 VILLAGES SPREAD OVER THREE PROVINCES AT A COST OF ABOUT DDLS. 2.5 MILLION. SIMILAR ACTIVITIES ARE IN APPROVAL PROCESS FOR AID FINANCING FOR THE NEXT YEAR, BUT DIRECTION OF PROGRAM UNCERTAIN THEREAFTER. AN EVALUATION OF ACCOMPLISHMENTS TO DATE WOULD HELP ESTABLISH WHAT MAKES SENSE FOR THE FUTURE.

2. MISSION WOULD LIKE TO DRAW UPON WASH SERVICES TO ASSIST CARE TO DEVELOP A SCOPE OF WORK FOR THE EVALUATION. MISSION CURRENTLY ENVISIONS THE MAIN PURPOSES OF THE EVALUATION TO BE TWO FOLD. ON THE ONE HAND THE MISSION AND CARE WOULD LIKE TO ASSESS THE COST EFFECTIVENESS AND IMPACT OF COMPLETED WORKS. SECONDLY THE MISSION WOULD LIKE TO ASSIST CARE TO CONSIDER A STRATEGY FOR LEVERAGING THEIR RESOURCES TO IMPACT ON GOVERNMENT WATER PROGRAMS.

3. MISSION ESTIMATES THAT THE SCOPE OF WORK COULD BE DEVELOPED IN 10-15 MAN DAYS. THIS WOULD ALLOW EVALUATION CONSULTANT TIME TO REVIEW THE CARE PROGRAM, VISIT SITES AND MEET WITH CONCERNED PARTIES. THE MISSION WOULD HOPE THAT SERVICES OF A CONSULTANT LIKE BOB GEARHEARDT, WITH PRIOR INDOONESIAN EXPERIENCE, WOULD BE AVAILABLE IN JANUARY OR EARLY FEBRUARY. THE MISSION WOULD HOPE THAT THE EVALUATION COULD BE CARRIED OUT IN MARCH OR APRIL OF 83. CARE HAS ALREADY DONE CONSIDERABLE PREPARATORY WORK ON A PROTOTYPE OF A SCOPE.

4. PLEASE ADVISE ON AVAILABILITY OF WASH SERVICES FOR THIS JOB. MONJO

Handwritten notes:
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 (J. J. J.)
 Copy to WASH
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Large handwritten notes:
 RECEIVED ST/H/WS (Wehrman) 1-5-83
 PASSED to WASH 1-6-83

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PAGE 01
ACTION AIDAC

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JAKART 18849 200539Z

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REF B

ACTION OFFICE ASSISTANT
INFO FVA-01 AFPE-02 -S- -01 DMST-10 CTR-02 STHE-01 SAST-01
ENGE-01 FVO-12 FVEF-01 RELO-01 STRF-01 MAST-01
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TO SECSTATE WASHDC 7889

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~~W. H. CALVERT~~
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UNCLAS JAKARTA 18849

AIDAC

PASS TO WASH

EO 12856. N/A

SUBJECT SCOTT FAJIA

MISSION WOULD LIKE TO CONSIDER USING FAJIA'S SERVICES FOR SHORT TERM CONSULTANCY IN IRIAN JAYA TO ASSIST PYO TO ASSESS POTENTIAL WATER PROJECTS. FAJIA IS AN ENGINEER WORKING ON DAM WATER PROJECTS. IS HE REGISTERED AS A CONSULTANT WITH WASH? HE INFORMS MISSION HE SENT REGISTRATION FORMS TO RHONDA STEPPE IN OCTOBER OF 1981. IF THIS IS THE CASE WOULD WE BE ABLE TO REQUEST HIS SERVICES WHEN WE PREPARE A WORK ORDER? APPRECIATE YOUR ASSISTANCE.

RECEIVED ST/H/WS (W. H. CALVERT) 1-24-83
PASSED TO WASH 1-24-83

Department of State

OUTGOING TELEGRAM

PAGE 01
ORIGIN AID-00

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REF C

ORIGIN OFFICE STHE-01
INFO ASEM-01 ASPD-03 ASTR-01 SAST-01 RELO-01 STHP-01 MAST-01
ASSP-02 3C-00 /012 AB

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E. O. 12356: N/A
TAGS:
SUBJECT: SCOTT FAIIA

REF: JAKARTA 18849

1). FAIIA HAS NOT COMPLETED HIS APPLICATION TO BE A WASH CONSULTANT. ONCE HE HAS COMPLETED PAPER WORK, WASH CAN CONSIDER USING HIM. FORMS ARE BEING FORWARDED TO HIM. PROCESSING TIME IS ABOUT THREE MONTHS. SHULTZ

To WASH: 5 JAN 83 JHQ



V. Wehman

C-363

[Handwritten signature]

TO: C-363 File
FROM: R. B. Isely
RE: Conversation by Telephone R. Isely and Walter North,
3 February, 1983
DATE: February 4, 1983

I called Walter North, PVO Officer for USAID/Jakarta, in San Francisco (415-931-3074) to ask about the proposed scope of work for Scott Faiia in the Irian Jaya area of Indonesia. I informed him that we had received Mr. Faiia's biodata form and were ready to proceed.

The Mission has signed a three year agreement with the World Relief Corporation of Wheaton, Illinois, to develop 70-80 small scale water supply systems in the Minyambou area (nearest air base is Mano Kwrai). Mr. Faiia, who is a CARE/Indonesia engineer with fluent Indonesian and intimate knowledge of the country, has been asked to do a feasibility assessment for this PVO at the beginning of the grant. Since he is scheduled to leave Indonesia for good in May, it is highly desirable that he begin work immediately.

If he has time, Mr. Faiia is also being asked to provide assistance to the Development Information Service which represents many other PVO's in the Jaya Poura area, in planning for water supply and sanitation projects in that area.

Both of these areas are quite remote. Travel is difficult and really feasible only by Mission plane. Mr. Faiia will need additional funds to pay these costs.

The contact person in the Mission during Mr. North's home leave is Ross Coggins.

RBI:mm

cc: V. Wehman

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PAGE 01

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EO 12356: N/A

SUBJECT: SCOTT FAIIA

REF: (A) 82 JAKARTA 18849, (B) STATE 2017

MISSION WOULD APPRECIATE IT IF PROCESSING OF FAIIA PAPER
WORK COULD BE EXPEDITED. FOR FUTURE REFERENCE WE WOULD
APPRECIATE RECEIVING COPY OF RELEVANT APPLICATION FORMS
NEEDED FOR WASH.

WALTER NORTH OF PVO OFFICE EXPECTS TO BE IN WASHINGTON IN
FEBRUARY AND HOPES TO MEET WITH RAY ISLEY AND WASH STAFF
TO DISCUSS FAIIA AND OTHER POTENTIAL WASH WORK ORDERS,
INCLUDING SCOPE OF WORK FOR CARE EVALUATION. MONJO

*Received ST/H/WS (Wehara) 1-7-83
Passed to WASH 1-7-83*

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TELEGRAM

PAGE 01 JAKART 433 270908Z 28 050210 AID6373

Ref F

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ACTION OFFICE STHE-31
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 INFO ASEM-01 ASDP-02 PPCE-01 PDPR-01 PPPB-03 ASPD-33 ASTR-01
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UNCLAS JAKARTA 01433

AIDAC

FOR R B ISELY, WASH PROJECT

EO 12356: N/A

SUBJECT: SCOTT FAIIA

REF: YOUR COMMERCIAL TELEX DATED 1/26/83

- MISSION AWAITING FURTHER DATA FROM IRIAN JAYA CONCERNING DETAILS OF SCOTT FAIIA CONSULTANCY. REMOTENESS OF SITE MAKES COMMUNICATION DIFFICULT. WOULD APPRECIATE WASH WILLINGNESS TO PROCEED WITH IMPLEMENTATION OF FAIIA CONSULTANCY ON BASIS OF SCANT INFORMATION. BASICALLY, FAIIA EXPECTED TO SUPERVISE FIRST WATER INSTALLATION OF A TOTAL OF 68 IN PROJECT. ESTIMATE 2 WEEKS TIME REQUIRED.
- REGRET YOUR OFFICE HAS MISLAID FAIIA'S BIODATA FORM 1420-17. URGE WASH PROCEED WITH CONSULTANCY WHILE THIS DATA BEING FORWARDED TO YOU BY FAIIA.
- WALTER NORTH LECT FOR HOME LEAVE PRIOR TO COMPLETION OF THESE ARRANGEMENTS. SUGGEST YOU CALL HIM AREA 203 NUMBER 259-2938 FOR DETAILS ABOUT THIS REQUEST AND SCHEDULE OF VISIT TO YOUR OFFICE. MONJO

Received ST/H/US (Wetterman) 2-2-83
Passed to WASH 2-2-83

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REF G

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44218 ANEMBJKT

OUR TELEX NO. 332

TO: ROSS GOGGINS, PVO OFFICE, USAID/JAKARTA

FROM: R.B. ISELY, WASH PROJECT

RE: 1) CARE EVALUATION
2) SCOTT FAIRA

c-354

1) CARE EVALUATION:

- A) HAVE TALKED WITH WALTER NORTH WHO HAS APPROVED JIM THOMSON FOR THIS TASK, I.E., DESIGN OF SCOPE OF WORK FOR EVALUATION.
- B) WILL OBTAIN MATERIALS ON CARE PROGRAM FROM STEVE SINGER AND MAIL THEM TO THOMSON.
- C) THOMSON'S PROJECTED ARRIVAL IS SUNDAY, FEBRUARY 13, 1983.
- D) PLEASE CONFIRM THE ACCEPTABILITY OF THIS DATE AND INDICATE HOTEL HE WILL BE STAYING IN.

Western Union International, Inc.

Telex

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2) SCOTT FAIIA:

- A) ALL NECESSARY FORMS HAVE BEEN RECEIVED AND PENDING APPROVAL BY CONTRACTS MANAGEMENT, WASH WILL ISSUE A CONSULTANT CONTRACT TO MR. FAIIA.
- B) WHEN CONTRACT IS READY, WE WILL ISSUE A LETTER OF AUTHORIZATION FOR MR. FAIIA TO BEGIN WORK. TEXT OF LETTER WILL BE TELEXED TO YOU.
- C) LETTER WILL CONTAIN SCOPE OF WORK AS RELATED BY WALTER NORTH, AUTHORIZED PERSON-DAYS, PER DIEM DAYS, TRAVEL, AND EXPENSES, AND OTHER TERMS OF REFERENCE SUCH AS REPORT WRITING GUIDELINES.
- D) MR. FAIIA SHOULD PLAN TO DEBRIEF AT WASH WHEN HE RETURNS TO THE U.S. LATER THIS YEAR.
- E) PLEASE KEEP US ADVISED ON ANY QUESTIONS, PROBLEMS, OR OTHER ISSUES AFFECTING THIS WORK. R.B. ISELY

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~~Via Western~~ UWW
C-354
REF H

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OUR TELEX NO. 505

TO: WALTER NORTH, PVO OFFICER, USAID/JAKARTA

FROM: R.B. ISELY, WASH PROJECT

ISELY/WASH WELCOME NORTH VISIT. REQUEST NORTH BRING FAIA
COMPLETED AID FORM 1420-17, 'CONTRACTOR EMPLOYEE BIOGRAPHICAL
DATA SHEET'. LACK OF THIS COMPLETED FORM ONLY REMAINING
OBSTACLE TO FAIA CONSULTANCY. REGARDS, R.B. ISELY

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Telex

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OUR TELEX NO. 505

TO: WALTER NORTH, PVO OFFICER, USAID/JAKARTA

FROM: R.B. ISELY, WASH PROJECT

ISELY/WASH WELCOME NORTH VISIT. REQUEST NORTH BRING FAIIA
COMPLETED AID FORM 1420-17, 'CONTRACTOR EMPLOYEE BIOGRAPHICAL
DATA SHEET'. LACK OF THIS COMPLETED FORM ONLY REMAINING
OBSTACLE TO FAIIA CONSULTANCY. REGARDS, R.B. ISELY

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Telex

OTD #136

February 10, 1983

Preparation of Scope of Work for Evaluation
of CARE Rural Water Project - Indonesia

AID/Indonesia requested WASH technical assistance in preparing the scope of work for the evaluation of the on-going CARE Rural Water Project. Since 1980 CARE has constructed 70 small scale rural water supply systems of 500 wells and numerous gravity flow systems in over 100 villages at a cost of about \$2,500,000. An evaluation of progress to date will enhance future programming by assessing the cost-effectiveness and impact of completed works. The WASH consultant will also assist the Mission in considering a strategy for CARE to leverage its resources for greater impact on government water programs.

For further information, contact Dr. R. Isely.

Up to twenty-two person days of effort, eighteen person days of international/domestic per diem and one international air round trip are authorized over a four month period. Up to \$4,400 for local travel and up to \$1,100 for local secretarial, graphics, reproduction and professional services are also authorized.

JEB/CIC
2/14/83

WATER AND SANITATION FOR HEALTH (WASH) PROJECT
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 136
10 February 1983

FEB 10 1983

TO: Dr. Dennis Warner, Ph.D., P.E.
WASH Contract Project Director

FROM: Mr. Victor W. R. Wehman Jr., P.E., R.S. *VWR*
AID WASH Project Manager
AID/S&T/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project
Scope of Work for USAID/Indonesia and CARE/Indonesia

REFERENCE: A) Jakarta 18964, dated 22 Dec 1982
B) WASH Telex No. 522, dated 24 Jan 83
C) WASH Telex No. 525, dated 25 Jan 83
D) WASH Telex No. 533, dated 7 Feb 83
E) WASH Telex No. 534, dated 8 Feb 83

1. WASH contractor requested to provide technical assistance to USAID/Indonesia as per Ref A, para 1-4. Consultant to work in close concert with USAID/Indonesia PVO officer or his representative.
2. WASH contractor/subcontractor/consultants authorized to expend up to 22 person days of effort over a four (4) month period to accomplish this technical assistance effort.
3. Contractor authorized to expend up to 18 person days of international/domestic per diem to accomplish this technical assistance effort.
4. Contractor to coordinate with ASIA/TR/HNP (Jalil Karam), ASIA/PD/ENGR (Hasan Hasan) and Indonesia Desk Officer and should provide copies of this OTD along with periodic progress reports as requested by ASIA Bureau staff or S&T/H/WS staff.
5. Contractor authorized to provide up to one (1) international round trip from consultants home base to Washington D.C. (for briefing) to Jakarta, Indonesia and return to consultants home-base through Washington D.C. during the life of this OTD.
6. Contractor authorized local travel within Indonesia as necessary and appropriate to accomplish this technical assistance effort NTE \$2300 without the prior written approval of the AID WASH Project Manager.
7. Contractor authorized to obtain local secretarial, graphics, reproduction or local professional services in Indonesia as necessary and appropriate to accomplish this effort NTE \$1100 without the prior written approval of the AID WASH Project Manager. These services are in addition to the level of effort specified in para 2 and 3 above.

8. Contractor authorized to provide for car or vehicle rental or hire to facilitate effort. Contractor authorized to travel by aircraft in Indonesia to facilitate effort. Costs for local Indonesian travel NTE \$1900 without the prior written approval of the AID WASH Project Manager.
9. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract.
10. WASH contractor should definitely be prepared to administratively and/or technically backstop field consultants and subcontractors.
11. New procedures relating to subcontractor cost estimates and contractor justification for selection of consultants remains in effect.
12. Contractor to provide field draft coordinated report to USAID/Indonesia PVO Officer in English before consultant returns to U.S. Final report to be in English and to be due to USAID/Indonesia and S&T/H/WS within 30 days of return of consultant to the U.S.
13. Mission and ASIA/TR(PD) staff should be contacted immediately and technical assistance initiated as soon as convenient to USAID/Indonesia.
14. Appreciate your prompt attention to this matter. Good luck.

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ACTION AID-30

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| ACTION OFFICE | STATE-01 | | | | | | |
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TO SECSTATE WASHDC 17963

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C O R R E C T E D C O P Y (TEXT: PARA III)

AIDAC

FOR CARL MCJUNKIN

EO 12356: N/A

SUBJECT: EVALUATION CARE INDONESIA RURAL WATER SUPPLY PROJECT

1. HAVE AGREED WITH ELLIS FRANKLIN, DIRECTOR OF CARE/INDONESIA AS TO UTILITY OF AN EVALUATION OF CARE'S RURAL WATER PROJECT. SINCE 1988 CARE WAS CONSTRUCTED 70 SMALL SCALE RURAL WATER SYSTEMS COMPRISING 530 WELLS AND NUMEROUS GRAVITY FLOW SYSTEMS IN OVER 100 VILLAGES SPREAD OVER THREE PROVINCES AT A COST OF ABOUT DOLS. 2.5 MILLION. SIMILAR ACTIVITIES ARE IN APPROVAL PROCESS FOR AID FINANCING FOR THE NEXT YEAR, BUT DIRECTION OF PROGRAM UNCERTAIN THEREAFTER. AN EVALUATION OF ACCOMPLISHMENTS TO DATE WOULD HELP ESTABLISH WHAT MAKES SENSE FOR THE FUTURE.

2. MISSION WOULD LIKE TO DRAW UPON WASH SERVICES TO ASSIST CARE TO DEVELOP A SCOPE OF WORK FOR THE EVALUATION. MISSION CURRENTLY ENVISIONS THE MAIN PURPOSES OF THE EVALUATION TO BE TWO FOLD. ON THE ONE HAND THE MISSION AND CARE WOULD LIKE TO ASSESS THE COST EFFECTIVENESS AND IMPACT OF COMPLETED WORKS. SECONDLY THE MISSION WOULD LIKE TO ASSIST CARE TO CONSIDER A STRATEGY FOR LEVERAGING THEIR RESOURCES TO IMPACT ON GOVERNMENT WATER PROGRAMS.

3. MISSION ESTIMATES THAT THE SCOPE OF WORK COULD BE DEVELOPED IN 10-15 MAN DAYS. THIS WOULD ALLOW EVALUATION CONSULTANT TIME TO REVIEW THE CARE PROGRAM, VISIT SITES AND MEET WITH CONCERNED PARTIES. THE MISSION WOULD HOPE THAT SERVICES OF A CONSULTANT LIKE SCB GEARHEAD, WITH PRIOR INDOONESIAN EXPERIENCE, WOULD BE AVAILABLE IN JANUARY OR EARLY FEBRUARY. THE MISSION WOULD HOPE THAT THE EVALUATION COULD BE CARRIED OUT IN MARCH OR APRIL OF 83. CARE HAS ALREADY DONE CONSIDERABLE PREPARATORY WORK ON A PROTOTYPE OF A SCOPE.

4. PLEASE ADVISE ON AVAILABILITY OF WASH SERVICES FOR THIS JOB. MONJO

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Copy to Wash
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 12.27.82

Intern

Via Wehman
C-354

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44218 AMENBJKT

Inc. OUR TELEX NO. 522

TO: WALTER NORTH, USAID/JAKARTA

FROM: R.B. ISELY, WASH PROJECT

1. WOULD LIKE TO PROPOSE JAMES THOMSON AS CONSULTANT FOR CARE EVALUATION SCOPE OF WORK. HE IS AVAILABLE AFTER JANUARY 25.

2. PLEASE SEND A MORE DETAILED SCOPE OF WORK AND OBJECTIVES FOR WORK IN IRIAN JAYA PROPOSED FOR SCOTT FRIIA. THANK YOU.

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OUR TELEX 525

TO: WALTER NORTH PVO OFFICER
USAID/JAKARTA

Inc. FROM: R B ISELY, WASH PROJECT

Western Union International, Inc.

1. JIM THOMSON AS PREVIOUSLY MENTIONED IS AVAILABLE FOR CARE MS+S EVALUATION TASK. HIS AVAILABILITY IS FROM NOW UNTIL MARCH 4.
2. DO YOU WISH TO DISCUSS SOME OF TASK WITH US BEFORE HE GOES OUT, OR SHOULD HE PROCEED TO COME NOW ?
3. WHEN CAN WE EXPECT YOUR VISIT?
4. ON SCOTT FRITA'S CONSULTANCY, WE HAVE EVIDENTLY MISLAID HIS 1420-17 (AID BIODATA SHEET). CAN A NEW ONE BE BROUGHT OR SENT AS SOON AS POSSIBLE? WE REGRET THIS VERY MUCH. WE WOULD NEVERTHELESS LIKE TO PROCEED WITH THE REQUEST FOR ASSISTANCE IN THE IRIAN JAYA AS SOON AS A MORE DETAILED SCOPE OF WORK IS SENT.

THANK YOU. J&
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44218 AMENBJKT

OUR TELEX NO. 533

TO: ROSS COGGINS, PVO OFFICER, USAID/JAKARTA

FROM: R.B. ISELY, WASH PROJECT

RE: CARE EVALUATION

DUE TO FAMILY EMERGENCY, JAMES THOMSON UNABLE TO COME AS
PLANNED. HOPE TO IDENTIFY ALTERNATE CONSULTANT IN THE
NEXT FEW DAYS. WILL INFORM YOU OF NAME, QUALIFICATIONS,
AND ETA AS SOON AS POSSIBLE. ISELY

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44218 AMENBJKT.....
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Western Union International, Inc.
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International Telex

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WASHAID 64552

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44218 ANEMBJKT

OUR TELEX NO. 534

TO: ROSS COGGINS, PVO OFFICER, USAID/JAKARTA

FROM: R.B. ISELY, WASH PROJECT

RE: CARE EVALUATION

ALTERNATE CONSULTANT FOR EVALUATION IS BOB GEARHEART.
YOU SHOULD EXPECT HIM NO SOONER THAN THURSDAY,
FEBRUARY 17. WILL INFORM YOU OF ETA AS SOON AS WE
KNOW. ISELY

Inc.
J#
44218 ANEMBJKT.....
001.2 MIN

Union International, Inc.

OTD #138

February 22, 1983

Technical, Training and Management
Assistance to the National Water Supply
and Drainage Board - Sri Lanka

AID/Sri Lanka requested that WASH provide technical, training and management assistance to the National Water Supply and Drainage Board (NWSDB) and also to the Ministry of Local Government, Housing and Construction (MLGHCL). Areas needing improvement include training, operations and maintenance, rehabilitation, water quality monitoring, planning, technology evaluation, organizational developments and community financing of water supply and sanitation systems. WASH consultants will assess these areas and develop recommendations, guidelines, procedures and plans as appropriate.

Their first task will be the preparation of a workshop on the management of operations and maintenance activities for the NWSDB to be implemented in March-April 1983.

For further information contact Mr. D. Donaldson

Up to one hundred person days of effort, eighty-five days of international/domestic per diem and four international air round trips are authorized over a five month period. Local travel up to \$900, up to \$1500 for local secretarial, graphics and reproduction services, and up to \$1800 for training material development, printing and support services are also authorized.

JEB/CIC
2/24/83

8. Contractor authorized to expend up to \$1800 for the training materials for the development or printing/support services associated with para. 6A and 9 in Ref. A.
9. Contractor authorized to provide for local car or vehicle(s) rental if necessary to facilitate effort. Mission is encouraged to provide Mission vehicles, if available and appropriate.
10. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract.
11. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.
12. Contractor report on overall progress of activity to be made in writing upon conclusion of each of the two efforts identified in para. 1 above. Final report due to S&T/H/WS within 30 days of return of each of the two consultant teams to the U.S. Consultants will leave a coordinated draft report with USAID in English before leaving field.
13. New procedures regarding subcontractor cost estimates and contractor selection justification for consultants remains in effect.
14. Mission should be contacted immediately and technical assistance initiated as soon as possible.
15. Appreciate your prompt attention to this matter. Good luck!

JHA/ddc

WASH
Rm.
Dir.

PAGE 01 COLOMB 00570 01 OF 03 270730Z 8467 048697 AID6171
ACTION AID-00

COLOMB 00570 01 OF 03 270730Z 8467 048697 AID

2) THE SECRETARY, MLGHC, HOLDS REGULAR MEETINGS OF KEY OFFICIALS OF
MLGHC (INCLUDING DISTRICT OFFICIALS) WITH THE NWSDB,

ACTION OFFICE P0PR-01
INFO AAAS-01 ASEM-01 ASDP-02 PPCE-01 PPEM-01 PPPB-03 GC-01
GCAS-01 GCFL-01 FM-02 ASPD-03 ASTR-01 CMGT-02 CTR-02
SIME-01 STMO-01 SAST-01 ENGR-01 MHS-09 ES-01 AAID-01
SER-01 RELO-01 DAEN-01 MAST-01 PRE-01 /043 A2 X28

3) THE NWSDB HAS BEGUN TO INSTALL WATER METERS IN THE COLOMBO
AND KALUTARA AREAS,

INFO OCT-00 INR-10 EB-08 NEA-07 AMAD-01 /061 W
-----374140 270732Z /38

4) THE NWSDB HAS RECRUITED A LONG-TERM ADVISOR TO WORK WITH THE
BOARD ON MANAGEMENT PROBLEMS, AND

R 270600Z JAN 83
FM AMEMBASSY COLOMBO
TO SECSTATE WASHDC 7823

5) WITH THE HELP OF THE WHO AND THE INTERNATIONAL REFERENCE
CENTER (IRC), THE MLGHC AND NWSDB HAVE PREPARED A MANPOWER STUDY
AND TRAINING-PLAN FOR THE SECTOR.

UNCLAS SECTION 01 OF 03 COLOMBO 0570

3. THE PRESENT ASSISTANCE REQUEST, WHICH WAS COORDINATED WITH WHO
ADVISORS TO THE NWSDB, IS A FOLLOW-ON TO THE WHO/IRC STUDY AND IS
E
D

AIDAC

E.O. 12556: N/A
SUBJ: WATER SUPPLY & SANITATION - REQUEST FOR WASH ASSISTANCE

ON THE REPORT AND RECOMMENDATIONS PREPARED FOR THE USAID AND THE
GSL BY JOHN AUSTIN, S&T/HEA, DURING HIS JUNE/JULY AND NOVEMBER 1982
CONSULTATIONS AND ON FOLLOW UP DISCUSSIONS BETWEEN THE USAID AND
MLGHC ON MR. AUSTIN'S REPORT AND

REF: STATE 134911

1. SUMMARY: USAID HAS RECEIVED REQUEST FROM DEPARTMENT OF EXTERNAL
RESOURCES (ERD) OF THE MINISTRY OF FINANCE & PLANNING TO PROVIDE
TECHNICAL ASSISTANCE TO THE NATIONAL WATER SUPPLY AND DRAINAGE BOARD
(NWSDB) IN THE FIELDS OF TRAINING, OPERATIONS AND MAINTENANCE,
REHABILITATION, WATER QUALITY MONITORING, PLANNING AND ALTERNATIVE
TECHNOLOGY. IN ADDITION, GSL INDICATES NEED TO STRENGTHEN THE
PLANNING AND COORDINATION UNIT OF THE MINISTRY OF LOCAL GOVERNMENT,
HOUSING AND CONSTRUCTION (MLGHC). USAID REQUESTS S&T/NEA TO RECRUIT
SHORT-TERM WASH ADVISORS IN THE ABOVE LISTED AREAS. MLGHC PLANS TO
RECRUIT A TEAM OF LOCAL WATER SUPPLY AND SANITATION (WS&S) EXPERTS
TO SERVE AS A PLANNING/COORDINATION UNIT WITH WASH ADVISORS AND THE
NWSDB. DETAILS ON THE ASSISTANCE REQUESTED ARE GIVEN BELOW. END
SUMMARY.

2. IN 1980, WITH A.I.D. ASSISTANCE, THE GSL DEVELOPED A TEN-YEAR
PLAN (1981-1990) FOR THE INTERNATIONAL DRINKING WATER SUPPLY AND
SANITATION DECADE. THE PLAN LAYED OUT A COURSE OF ACTION FOR
THE GSL ESTABLISHING COVERAGE PROGRAM OBJECTIVES AND SUPPORT PROGRAM
OBJECTIVES TO BE ACHIEVED OVER THE TEN-YEAR PERIOD. IN 1981 THE GSL
APPROACHED USAID WITH A REQUEST TO CARRY OUT A TECHNO-ECONOMIC
FEASIBILITY STUDY AS A FIRST STEP IN ACHIEVING THE COVERAGE
PROGRAM OBJECTIVES OF THE PLAN. THE USAID IN ITS RESPONSE
ACKNOWLEDGED THE NEED FOR IMPROVED WATER SUPPLY AND SANITATION
FACILITIES IN SRI LANKA, AT THE SAME TIME EMPHASIZING WHAT WE
CONSIDERED TO BE AN EVEN GREATER NEED TO IMPROVE THE INSTITUTIONAL
INFRASTRUCTURE REQUIRED TO SUPPORT AN ALREADY CONSIDERABLE LEVEL OF
INVESTMENTS IN COVERAGE PROJECTS BY THE GSL AND OTHER DONORS.
THE USAID GAVE SPECIAL EMPHASIS TO THE CRITERIA CONTAINED IN AID/W'S
GUIDANCE CONCERNING A.I.D. INVOLVEMENT IN WS&S ACTIVITIES (REFTEL).
OF PARTICULAR CONCERN TO THE MISSION WAS THE NEED FOR IMPROVED
PLANNING AND COORDINATION OF WS&S ACTIVITIES AND COMMUNITY (AND/OR
INDIVIDUAL) PARTICIPATION IN SHARING AT LEAST THE COSTS OF OPERATING
AND MAINTAINING THE SYSTEMS. AT THE SAME TIME THE GSL WAS FACED
WITH SEVERE BUDGET CRUNCH WITH A RESTRICTION ON ALL NEW CAPITAL
PROJECTS UNTIL 1985. THE MLGHC, WHICH HAS PRIMARY RESPONSIBILITY
FOR THE DEVELOPMENT OF WS&S SYSTEMS THROUGHOUT THE COUNTRY, REASSESS

ITS STRATEGY AND DECIDED TO PROCEED WITH THE SUPPORT PROGRAM
OBJECTIVES OF THE TEN-YEAR PLAN. USAID BELIEVES THE SHIFT IN
STRATEGY WITH ITS FOCUS ON INSTITUTION BUILDING WILL HAVE A VERY
BENEFICIAL IMPACT OF FUTURE DEVELOPMENTS IN THE WS&S SECTOR. THE
MLGHC HAS ALREADY TAKEN A NUMBER OF STEPS TO IMPROVE OVERALL
MANAGEMENT AND COORDINATION OF WS&S ACTIVITIES:

1) THE MLGHC HAS INCREASED THE RESPONSIBILITY OF THE NWSDB FOR
OPERATIONS AND MAINTENANCE OF SMALL SCALE WS&S SYSTEMS,

*Mc Junkin
Austin
Winters
[Signature]*

*RECEIVED ST/H/WS (Wehmf)
1-31-83
Passed to WASH 1-31-83*

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 GCAS-01 GCFL-01 FM-02 ASPD-02 ASTR-01 CMGT-02 CTR-02
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DOUBLE SRI LANKAN HOLIDAYS.) USAID SUGGESTS FOLLOWING TIME TABLE:
 EITHER MARCH 13-26 OR APRIL 17-30 FOR WORKSHOP; MAINTENANCE PROCEDURES/
 METHODS CONSULTANT - SIX WEEKS BEGINNING MAY 1; REHABILITATION
 ADVISOR -2 MONTHS BEGINNING JUNE 6 WITH A THIRD MONTH BEGINNING
 NOVEMBER 6; ALTERNATIVE TECHNOLOGY 2 MONTHS BEGINNING MID JUNE;
 WATER QUALITY -1 MONTH BEGINNING JULY 5; PERFORMANCE PROBLEM SOLVING
 AND JOB AIDS WORKSHOPS OR 2 ADVISORS FOR 1 MONTH BEGINNING MID
 SEPTEMBER; PLANNING AND FINANCIAL ADVISORS -ONE MONTH BEGINNING ASAP
 WITH A SECOND MONTH BEGINNING MID OCTOBER. FOREGOING TIME TABLE
 IS FLEXIBLE. IF S&T/HEA CAN NOT RECRUIT CANDIDATES TO MEET THE
 SUGGESTED SCHEDULE, PLEASE ADVISE. WE PREFER TO STRUCTURE THE
 TIMING AROUND THE AVAILABILITY OF THE BEST QUALIFIED CANDIDATES.
 A MAJOR CONCERN IS THAT WASH ADVISORS DO NOT ALL ARRIVE AT SAME
 TIME AS BOTH WWSDB'S AND USAID'S ABILITY TO COORDINATE AND WWSDB'S
 ABILITY TO MAKE AVAILABLE COUNTERPARTS IS LIMITED. USAID REQUESTS
 YOU COORDINATE RECRUITMENT EFFORTS WITH J. AUSTIN AND CABLE NAMES
 AND SUMMARIES OF BIODATA AS IT COMES AVAILABLE WITH MORE EXTENSIVE
 BIODATA SENT BY POUCH.

19. USAID REQUESTS YOU MAKE FOLLOWING MODIFICATIONS IN DRAFT SCOPES
 OF WORK AS LISTED IN HIS REPORT OF NOVEMBER 2, 1982:

- 1) IMPROVING MANAGEMENT OF OPERATIONS AND MAINTENANCE.
 ADD ITEM 3.1 1.3 AS FOLLOWS QUOTE PRIOR TO DEPARTURE, PROVIDE
 THE WWSDB WITH A WRITTEN REPORT ON THE ABOVE ACTIVITIES AND
 RECOMMENDATIONS. UNQUOTE.
- 2) REHABILITATION, A) ITEM 3.3 1.2, INSERT QUOTE AND COST ESTIMATES
 UNQUOTE AFTER THE WORD SURVEY, B) ITEM 3.3.1.6 SUBSTITUTE THE WORD
 QUOTE RECOMMEND UNQUOTE FOR THE WORD QUOTE IMPLEMENT UNQUOTE.
- 3) ALTERNATIVE TECHNOLOGY, ADD A) ITEM 3.4 1.5 AS FOLLOWS: QUOTE
 PROVIDE ESTIMATED CAPITAL AND OPERATIONAL COSTS OF VARIOUS
 ALTERNATIVE TECHNOLOGIES. UNQUOTE. B) ADD ITEM 3.4 1.6 AS FOLLOWS:
 QUOTE PRIOR TO DEPARTURE PROVIDE THE WWSDB WITH A WRITTEN REPORT
 ON THE FINDINGS OF ACTIVITIES LISTED IN 3.4 1.1 AND 3.4 1.4, WITH
 RECOMMENDATIONS ON ADAPTING ALTERNATIVE TECHNOLOGIES TO EXISTING
 SITUATION IN SRI LANKA.
- 4) PLANNING A) ADD ITEM 3.7 1.5 AS FOLLOWS: QUOTE CARRY OUT THE
 TASKS LISTED IN ITEMS 3.7 1.1 THROUGH 3.7 1.4, ABOVE WITH RESPECT
 TO THE PLANNING UNIT OF THE MLGHC. B) ADD ITEM 3 71.6 AS FOLLOWS:
 QUOTE PRIOR TO DEPARTURE, PROVIDE THE MLGHC AND THE WWSDB WITH A
 WRITTEN REPORT ON THE ABOVE FINDINGS AND RECOMMENDATIONS. THE REPORT
 SHOULD MAKE RECOMMENDATIONS ON WHAT FUNCTIONS EACH AGENCY SHOULD
 PERFORM AND WHAT ORGANIZATION, STAFFING, FACILITIES, EQUIPMENT,
 AND FINANCING EACH SHOULD HAVE.
- 5) FINANCIAL SPECIALIST --ADD 3.8 1.1. REVIEW AND REPORT ON MLGHC
 EXISTING PRACTICES (INCLUDING AN ASSESSMENT OF PRESENT CAPABILITIES
 OF FINANCIAL PLANNING, BUDGETING AND ACCOUNTING, AND BILLING AND
 COLLECTION OFFICES) FOR THE FINANCING OF SD&S SYSTEMS; 3.8 1.2 REVIEW
 WITH MLGHC AND OTHER APPROPRIATE MINISTRIES AND REPORT ON CURRENT

STATUS OF PLANNING FOR FUTURE FINANCING OF WS&S SYSTEMS INCLUDING
 CAPITAL INVESTMENTS AND RECURRENT COSTS, ESPECIALLY OF THE
 OPERATING AND MAINTENANCE COSTS OF THE SYSTEMS; 3.3 1.3 REVIEW
 AND REPORT ON PROJECTED BUDGET FOR WWSDB PARTICULARLY FOR TRAINING
 STAFF AND TRAINING OPERATIONS,
 AND FOR OPERATIONS AND MAINTENANCE ACTIVITIES, WATER QUALITY
 SURVEILLANCE PROGRAMS, AND REHABILITATION OF WS&S SYSTEMS; 3.8 1.4
 REVIEW/REPORT ON PROGRESS OF EXISTING EFFORTS OF WWSDB TO INSTALL
 WATER METERS AND COLLECT COSTS OF WATER SERVICES; 3.8 1.5 REVIEW WITH
 MLGHC MOST COMMON REVENUE RAISING TECHNIQUES USED TO FINANCE
 WS&S SYSTEMS (WITH PARTICULAR EMPHASIS ON COMMUNITY PARTICIPATION
 AND SELF HELP TECHNIQUES); 3.8 1.6 BRIEF MLGHC AND WWSDB ON BRAZILIAN
 MODEL FOR ESTABLISHMENT OF COMMUNITY WS&S AUTHORITIES;
 3.8 1.7 PREPARE AN ACTION PLAN FOR MEETING THE NEEDS IDENTIFIED
 IN THE ABOVE ASSESSMENTS INCLUDING RECOMMENDED T.A. REQUIRED TO
 IMPLEMENT THE PLAN.

11. THE FINANCIAL SPECIALIST SHOULD HAVE A MINIMUM OF EIGHT YEARS
 OPERATIONAL EXPERIENCE, INCLUDING FOUR YEARS OVERSEAS, WORKING IN THE
 FIELD OF INTERNAL FINANCING OF WS&S SYSTEMS IN DEVELOPING COUNTRIES.

12. POSSIBLE FUTURE INVOLVEMENT IN WS&S ACTIVITIES WILL DEPEND
 IN LARGE MEASURE ON GSL INPUT INTO THE ABOVE ACTIVITIES AND THE
 DEVELOPMENT OF THE NECESSARY SUPPORT CAPABILITIES NEEDED TO
 IMPLEMENT A WS&S PROGRAM. THE WASH ASSISTANCE REQUESTED ABOVE IS
 NEEDED TO HELP THE MISSION AS WELL AS THE GSL TO ASSESS THE MANPOWER
 AND FINANCIAL INPUTS NEEDED FOR EACH OF THE ABOVE ACTION PROGRAMS.
 USAID WELCOMES YOUR COMMENTS AND RECOMMENDATIONS ON THE ASSISTANCE
 REQUESTED. USAID APPRECIATES THE HELP OF MR. AUSTIN IN DEVELOPING
 THIS ASSISTANCE REQUEST AND WE WOULD APPRECIATE BEING ADVISED
 WHEN HE OR OTHER S&T /HEA STAFF MAY BE TRAVELLING IN THE AREA AND
 COULD BE MADE AVAILABLE FOR CONSULTATION.
 REED

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STMD-01 SAST-01 ENGR-01 HNS-09 ES-01 AAID-01 SER-31
RELO-01 DAEN-01 MAST-01 PRE-01 /042 A2 X28

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TO SECSTATE WASHDC 7824

UNCLAS SECTION 02 OF 03 COLOMBO 0570

RECOMMENDATIONS THE MISSION APPRECIATES THE VERY TIMELY ASSISTANCE PROVIDED BY MR AUSTIN, HIS ENTHUSIASTIC SUPPORT, AND PATIENCE WITH THE MISSION IN THE SLOW START UP FOR HIS THIS ACTIVITY. THE MISSION IS HOPEFUL THAT THE RECENT ADDITION OF A HEALTH AND POPULATION OFFICER TO ITS STAFF WILL ENABLE THE MISSION TO FOLLOW THROUGH ON IMPLEMENTATION MORE RAPIDLY IN THE FUTURE.

4. THE ERO LETTER OF REQUEST STATES QUOTE THE GSL'S HIGHEST PRIORITY AT PRESENT IS THE ESTABLISHMENT OF A PROPERLY STAFFED MAINTENANCE ORGANIZATION AT THE NWSDB TO IMPLEMENT A THOROUGH AND APPROPRIATE PROGRAM FOR PREVENTIVE MAINTENANCE OF THE EXISTING ASSETS. THE RESULT OF HIGH CONCENTRATION ON DESIGN AND CONSTRUCTION OF NEW WATER SUPPLY & DRAINAGE SCHEMES IN RECENT YEARS HAS LED TO A DECLINE OF EXISTING ASSETS INTO A CONDITION OF EXTREME DISREPAIR AND PREMATURE DETERIORATION THE IMMEDIATE SOLUTION FOR THIS PROBLEM WOULD BE TO IMPLEMENT A CRASH PROGRAM FOR THE REHABILITATION OF EXISTING ASSETS, AND TO INITIATE A WELL DESIGNED TRAINING PROGRAM WITH THE DUAL OBJECTIVES OF OVERCOMING THE PHYSICAL BOTTLENECKS IN THE OPERATION AND MAINTENANCE ACTIVITIES AND FINDING EFFECTIVE WAYS AND MEANS OF REDUCING AND ACTUAL COST OF SUCH ACTIVITIES. END QUOTE.

5. IN ADDITION TO ABOVE NEEDS, THE SECRETARY OF MLGHC INDICATES THAT THE PLANNING AND COORDINATION UNIT OF THE MINISTRY (FOR THE WS&S SECTOR) WILL BE STRENGTHENED. THE MANNER IN WHICH THIS IS TO BE IMPLEMENTED COULD BE EXAMINED BY THE CONSULTANTS WHO WILL COME IN RESPONSE TO THE MINISTRY'S REQUEST AND WILL RECOMMEND THE NATURE AND EXTENT OF WASH/USAID PARTICIPATION IN THE GSL'S EFFORTS TO IMPROVE SUPPORT SERVICES FOR THE WS&S SECTOR.

- 6. WITHIN THE ABOVE CONTEXT NWSDB REQUESTS WASH ASSISTANCE IN
 - A) IMPROVING MANAGEMENT OF OPERATIONS AND MAINTENANCE WORKSHOPS,
 - B) IMPROVING PROCEDURES AND METHODS RELATED TO MAINTENANCE OF WS&S FACILITIES,
 - C) DEVELOPING GUIDELINES FOR CONDUCTING A SURVEY OF REHABILITATION NEEDS AND PROCEDURES FOR CONDUCTING REHABILITATION OF WS&S FACILITIES,
 - D) REVIEWING PRESENT OPERATIONAL STATUS AND TECHNOLOGY OF EXISTING WATER TREATMENT PLANTS (WATER SUPPLY AND SEWAGE DISPOSAL) AND RECOMMENDING HOW ALTERNATIVE TECHNOLOGIES CAN BE EVALUATED.
 - E) DEVELOPING A WATER QUALITY SURVEILLANCE AND MANAGEMENT PROGRAM, AND

F
/ 35-71803, & 034194. - : 3 049713. 91; 8, & -, S '06 AID'S WORKSHOPS,
G) ANALYZING THE MLGHC'S AND THE NWSDB'S EXISTING PLANNING AND COORDINATING MECHANISMS AND RECOMMENDING IMPROVEMENTS TO IMPROVE THEIR EFFECTIVENESS

H) IN ADDITION, USAID REQUESTS THAT TEAM INCLUDE A FINANCIAL SPECIALIST TO REVIEW GSL PLANNING/POLICIES REGARDING THE COMMUNITY AND/OR PRIVATE ENTERPRISE PARTICIPATING IN THE FINANCING OF OPERATIONS AND MAINTENANCE OF WS&S SYSTEMS AND TO MAKE RECOMMENDATIONS REGARDING THE FINANCING OF CAPITAL AND RECURRENT COSTS OF WS&S SYSTEMS THROUGH FEES, TAXES OR OTHER MEANS.

7. SCOPE OF WORK AND DESCRIPTIONS OF CONSULTANT QUALIFICATIONS ALONG WITH PROPOSED WORK PLANS HAVE BEEN DRAFTED FOR EACH ACTIVITY (WITH THE EXCEPTION OF PARA H)-LISTED ABOVE. AUSTIN HAS DRAFT COPIES FOR S&T/HEA REVIEW AND INITIAL REACTION.

8. USAID REQUESTS S&T/HEA INITIATE ACTION ON FINDING SUITABLE PERSONS TO FILL THE QUALIFICATIONS WE HAVE DEFINED FOR EACH ACTIVITY.

9. REGARDING THE TIMING, NWSDB/USAID CONSIDER HOLDING A WORKSHOP (THE IMPROVEMENT OF THE MANAGEMENT OF OPERATIONS AND MAINTENANCE ACTIVITIES TO BE THE FIRST PRIORITY AND CONSULTANT'S) SHOULD BE RECRUITED ASAP TO CONDUCT THE WORKSHOP. THE NWSDB IS INITIATING PRELIMINARY STEPS FOR THE WORKSHOP (PER AUSTIN RECOMMENDATIONS) AND IS PREPARED TO SCHEDULE THE WORKSHOP AS SOON AS IT HAS SOME IDEA OF WHEN THE CONSULTANTS CAN BE AVAILABLE. USAID RECOMMENDS THAT WEEKS OF MARCH 27 AND APRIL 11 BOTH BE AVOIDED AS THEY CONTAIN

Proposed Scope of Work
for
USAID/Colombo Institutional Support for the
National Water Supply and Drainage Board
Colombo, Sri Lanka

through the
Water and Sanitation For Health (WASH) Project
Bureau for Science and Technology
Office of Health

November 5, 1982

Revised February 14, 1983
per Colombo 00570
JHA

1. Background

In June and July, 1982 Dr. John H. Austin of S&T/HEA assisted AID/Colombo in drafting "Proposed Project Activities on Water Supply and Sanitation" after discussions with the National Water Supply and Drainage Board (NWSDB) (see Attachment I). This document was submitted to the NWSDB.

On November 12, 1982 an official request was received from the Government of Sri Lanka requesting AID/Colombo to move ahead with the efforts described in the above report.

2. Activities Since July, 1982.

Soon after the above report was prepared the International Reference Center (IRC) agreed to support a two person month effort to initiate the first two activities outlined in the above report, namely:

- Training Systems Development (Operation and Maintenance)
- Analysis of Operation and Maintenance Needs

IRC let a contract to the Industrial Training Service (ITS) of United Kingdom and this work was carried out in September - October, 1982. A report is being prepared* by ITS and a copy will be forwarded to S&T/HEA when it becomes available.

Based on experience gained during the last few months, plus reevaluation of the proposed efforts and the results of the ITS effort, slight modifications have been made in the activities as outlined in the previous report. These have been incorporated into activities as shown in sections 3.1 to 3.9 below. WASH assistance is requested to carry out this effort.

3.1 Improving Management of Operations and Maintenance Workshop

3.1.1. Scope of Activities

- 3.1.1.1. Collect background material on all aspects of operations and maintenance activities of the Board.

*Pilot study to consider the maintenance problems and needs in one geographical area and provide practical recommendations for action for the National Water Supply and Drainage Board - Sri Lanka, October, 1982.

- 3.1.1.2 Develop a workshop on improving the management operation and maintenance activities of the Board which will accomplish the following goals:
 - 3.1.1.2.1 Review the present status of operation and maintenance activities as seen by senior Board personnel concerned with operation and maintenance.
 - 3.1.1.2.2 Determine expectations of senior operation and maintenance personnel in regards to how they would like to see operation and maintenance managed by the Board.
 - 3.1.1.2.3 Determine problem areas identified by the above process and develop a workshop for active participation by Board personnel to determine alternative solutions to these problems.
 - 3.1.1.2.4 Assist senior operation and maintenance personnel in developing recommendations, setting priorities and laying out action plans to improve operation and maintenance activities of the Board.
 - 3.1.1.2.5 Develop a team approach to the operation and maintenance activities of the Board.
- 3.1.1.3 Prior to departure provide the NWSDB with a written report on the above activities and recommendations.

3.1.2. Qualifications of Consultant

3.1.2.1 Academic

The consultant should have a university degree.

3.1.2.2 Experience

The consultant(s) should have had a least eight years experience in a mix of activities such as task analysis, performance problem solving, training system development and management training. At least two years experience with developing of Third World personnel and programs and with work in different cultures is highly desirable.

3.2 Maintenance Procedures and Methods

3.2.1 Scope of Activities:

- 3.2.1.1 Review Report prepared by ITS.
- 3.2.1.2 Review present maintenance procedures and make recommendations.
- 3.2.1.3 Develop manual system for collecting and handling data.
- 3.2.1.4 Develop forms for storage and retrieval of data.
- 3.2.1.5 Train personnel to use system.

- 3.2.1.6 Field test and revise system.
- 3.2.1.7 Implement system on limited sale.
- 3.2.1.8 Develop action plan for expanding the system, and a scope of work for implementing it.

3.2.2 Qualifications of Consultant

3.2.2.1 Academic

The consultant should preferably have a university degree in engineering.

3.2.2.2 Experience

The consultant should have had at least 8 years of experience in developing and implementing maintenance management systems. The experience must include the development and use of manual systems. Experience in change over of manual systems to automated systems is desirable. The consultant must have had at least two years experience with the design, development, implementation and revision of such a system. This system should have shown evidence of successful operation for at least one year under the guidance of the consultant. Third World experience is desirable.

3.3. Rehabilitation*

3.3.1 Scope of Activities

- 3.3.1.1 Select a team of Board employees from all sections related to rehabilitation efforts.
- 3.3.1.2 Develop guidelines for conducting survey and cost estimates of rehabilitation needs.
- 3.3.1.3 Develop procedures for conducting rehabilitation.
- 3.3.1.4 Set priorities for rehabilitation (type of equipment, plants, geographic location, political considerations, etc.).
- 3.3.1.5 Train personnel in procedures for conducting rehabilitation at major plants (list to be supplied in order of priority).
- 3.3.1.6 Recommend trail rehabilitations based on priority listings and availability of supplies and equipment.

*This scope of activities will have to be revised after review of the ITS report and completion of the activities in 3.1 and 3.2.

- 3.3.1.7 Revise procedures and training as necessary.
- 3.3.1.8 Develop plan for long term rehabilitation effort.
- 3.3.2 Qualifications of Consultant

- 3.3.2.1 Academic

It would be desirable for the consultant to have a university degree in engineering or at least a two year associate degree in engineering technology.

- 3.3.2.2. It is important that the person selected have experience in evaluating water systems and carrying out rehabilitation. The consultant should have at least eight years experience in working with the types of equipment found in water systems plus at least two years implementing rehabilitation programs. The quality of performance of the consultant in performing these rehabilitation operations will be the key items in his selection.

- 3.4 Alternative Technology

- 3.4.1 Scope of Activities

- 3.4.1.1 Review the present operational status and technology of the existing water treatment plants.
- 3.4.1.2 Conduct workshops on simple water treatment plants for treating turbid/iron-bearing water with operational features which include low-cost flow meters, gauges, chemical feed and disinfection devices, high rate sedimentation and declining rate filtration systems, with dual media simple backwash arrangements.
- 3.4.1.3 Initiate simple treatment plan design and demonstrate rehabilitation of conventional treatment plants with manual or hydraulic process control devices.
- 3.4.1.4 Investigate appropriate technology applications developed locally as well as from AIT and surrounding Asian countries.
- 3.4.1.5 Provide estimated capital and operational costs of various alternative technologies.
- 3.4.1.6. Prior to departure provide the NWSDB with a written report on the findings of activities listed in 3.4.1.1. and 3.4.1.4 with recommendations on adapting alternative technologies to existing situation in Sri Lanka.

- 3.4.2 Qualifications

- 3.4.2.1. Academic

A degree in engineering (civil or chemical) from a university of recognized standing with post-graduate training in sanitary engineering is preferable.

3.4.2.2 Experience

Experience of about five years in design of simple treatment plants suitable for developing countries and innovative approaches to upgrading conventional treatment plants.

3.5 Drinking Water Quality Management Program

3.5.1 Scope of Activities

- 3.5.1.1. Review documentation and interview personnel as to status of thinking on drinking water quality management.
- 3.5.1.2 Develop objectives of Ministry of Health (MOH) and Board monitoring program.
- 3.5.1.3 Obtain agreement of objectives.
- 3.5.1.4 Develop detailed procedures to be used for sampling, transport analysis and reporting of data for corrective action where necessary.
- 3.5.1.5 Design a phased program of laboratory development at various levels (national, regional, local). Develop a plan for the use of the data for corrective action.
- 3.5.1.6 Develop space, equipment, supply, human resource and transportation, requirements for each type of laboratory.
- 3.5.1.7 Develop an action plan for the MOH and Board to implement development of water quality surveillance program.

3.5.2 Qualifications of Consultant

3.5.2.1 Academic

The consultant should have a university degree in chemistry, microbiology, or engineering.

3.5.2.2 Experience

The consultant should have had at least eight years experience in water quality surveillance programs. At least two years of this experience should have been in responsible charge of a drinking water laboratory and experience with water treatment procedures. Experience in a developing country in drinking water quality surveillance programs will be an asset.

3.6 Performance Problem Solving and Job Aids Workshops

3.6.1 Scope of Activities

3.6.1.1 Review existing data and interview training and operational staff of NWSDB in order to adopt Front End Analysis Workshop (J.R. Harless Copyright) and Job Aids Workshop (J.R. Harless, Copyright) or equivalent workshops to suit the needs of the Board.

3.6.1.2 Implement both workshops to selected group of Board staff. One consultant for each seven to ten trainees will be required.

3.6.1.3 Develop the expertise of at least four Board staff in the skills of implementing additional workshops.

3.6.1.4 Develop an implementation plan for additional workshops.

3.6.2 Qualifications

3.6.2.1 Academic

The consultant(s) should have a university degree.

3.6.2.2 Experience

The consultant(s) should have had at least eight years of experience in training system development of which at least two years are in the general areas of performance problem solving and development of job aids, whichever approach is approved (Harless or equivalent). The consultant(s) should have been a lead instructor in this methodology at least five times. One of the instructors should have implemented this program in a developing country at least twice.

3.7 Planning

3.7.1 Scope of Activities

3.7.1.1 Review existing planning structure of Board, change proposed in recent O & M report* and views of staff.

3.7.1.2 Review existing data collection and information systems in use as to their utility and adequacy for planning and propose the development of a comprehensive management information system. This proposal will lead to a separate activity.

*The NWSDB is presently engaged in improving its operation and maintenance. A four volume effort on the reorganization of the Board has just been received and would certainly influence the proposed activities. In addition, the World Bank is considering the placement of a person for two years to help the Bank in its management efforts.

- 3.7.1.3 Evaluate present and proposed lines of communication, goal setting procedures, allocation of material and human resources and suggest improvements where needed for optional use of resources.
- 3.7.1.4 Provide backstopping to the National Coordinating Committee on formulation of sector policies and action plans on coverage and support programs.
- 3.7.1.5 Carry out the tasks listed in items 3.7.1.1. through 3.7.1.4., above with respect to the planning unit of the Ministry of Local Government Housing and Construction (MLGHC).
- 3.7.1.6. Prior to departure, provide the MLGHC and the NWSDB with a written report on the above findings and recommendations. The report should make recommendations on what functions each agency should perform and what organization, staffing, facilities, equipment, and financing each should have.

3.7.2 Qualifications of Consultant

3.7.2.1 Academic

The consultant should have a university degree in one of the fields related to planning in public utilities.

3.7.2.2 Experience

The consultant should have at least eight years experience in public utility planning. Four years experience in a developing country is required and two of these years in the water and sanitation sector or a closely related type of public organization. The experience must include all aspects of the planning process including conceptualization, development, implementation and evaluation and revision including financial, capital development, human resource development, operation and maintenance of systems.

3.8 Financing

3.8.1. Scope of Activities

- 3.8.1.1 Review and report on MLGHC existing practices (including an assessment of present capabilities of financial planning, budgeting and accounting, and billing and collection offices) for the financing of WS&S systems.
- 3.8.1.2 Review with MLGHC and other appropriate ministries and report on current status of planning for future financing of WS&S systems including capital investments and recurrent costs, especially of the operating and maintenance costs of the systems.
- 3.8.1.3 Review and report on projected budget for NWSDB particularly for training staff and training operations, and for operations and maintenance activities, water quality surveillance programs, and rehabilitation of WS&S systems.

- 3.8.1.4 Review/report on progress of existing efforts of NWSDB to install water meters and collect costs of water services.
- 3.8.1.5 Review with MLGHC most common revenue raising techniques used to finance WS&S systems (with particular emphasis on community participation and self help techniques).
- 3.8.1.6 Brief MLGHC and NWSDB on Brazilian model for establishment of community WS&S authorities.
- 3.8.1.7 Prepare an action plan for meeting the needs identified in the above assessments including recommended T.A. required to implement the plan.

3.8.2. Qualifications of Consultant

3.8.2.1 Academic

The consultant should have a university degree in one of the fields related to finance.

3.8.2.2 Experience

The Financial Specialist should have a minimum of eight years operational experience, including four years overseas, working in the field of internal financing of WS&S systems in developing countries.

3.9 Scheduling of Activities

| Activity | Dates | 1983 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------------------------|------|---|----|-------|-------|----|-----|----|-------|-----|----|----|-------|----|----|-----|-------|----|-----|----|---|-----|----|----|-------|----|----|----|-------|----|----|----|---|----|----|----|
| | | Jan | | | Feb | | | Mar | | | Apr | | | May | | | Jun | | | Jul | | | Aug | | | Sept | | | | | | | | | | | |
| | | 2 | 9 | 16 | 23 | 6 | 13 | 20 | 27 | 6 | 13 | 20 | 27 | 3 | 10 | 17 | 24 | 12 | 15 | 22 | 29 | 5 | 12 | 14 | 26 | 3 | 10 | 17 | 24 | 7 | 14 | 21 | 28 | 4 | 11 | 18 | 25 |
| Improving Management of Operations and Maintenance Workshop | 16 - 29 Jun | | | | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maintenance Procedures and Methods | 6 Feb - 5 March | | | | | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rehabilitation | 13 Mar - 7 May 14 Aug - 10 Sept | | | | | | | | | _____ | | | | | | | | | | | | | | | | | | | | _____ | | | | | | | |
| Alternative Technology | 27 Mar - 21 May | | | | | | | | | | | | | _____ | | | | | | | | | | | | | | | | | | | | | | | |
| Water Quality | 17 Apr - 15 May | | | | | | | | | | | | | | | | | _____ | | | | | | | | | | | | | | | | | | | |
| Performance Problem Solving & Job Aids Workshops | 5 Jun - 2 July | | | | | | | | | | | | | | | | | | | | | | | | | _____ | | | | | | | | | | | |
| Planning | 12 Jun - 6 Aug | | | | | | | | | | | | | | | | | | | | | | | | | | | | | _____ | | | | | | | |

3.10 Proposed Work Plans for Activities

3.10.1 Proposed Work Plan for Improving Management of Operations and Maintenance Workshop

| Activity | Day | | | | | | | | | | | | | | | | | |
|---|-------|-------|-------|-------|---|---|---|---|---|-------|---|-------|----|----|----|----|----|--|
| | -45 | -30 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | |
| Collect Background Material | _____ | | | | | | | | | | | | | | | | | |
| Review Background Material | | _____ | | | | | | | | | | | | | | | | |
| Interview Workshop Participants and Others | | | _____ | | | | | | | | | | | | | | | |
| Design Workshop | | | | _____ | | | | | | | | | | | | | | |
| Implement Workshop | | | | | | | | | | _____ | | | | | | | | |
| Develop Future Plans | | | | | | | | | | | | _____ | | | | | | |

3.10.3 Proposed Workplan for Rehabilitation

| Activity | Day | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|----|----|----|----|----|----|----|----|----|---|---|---|---|----|----|----|----|----|----|----|--|--|--|--|--|--|--|--|
| | 1 | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 1 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | | | | | | | | |
| Develop Details of Scope of Work | After completion of 3.1 and 3.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Review Previous Work | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Develop Team from Board | Begin 2 months prior to travel of consultant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Develop Guidelines | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Develop Procedures | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Set Priorities | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Train Personnel | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Implement Trail Rehabilitation | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Analyze Data and Develop Rehabilitation Plan | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Revise Training | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carry Out Plan | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

3.10.4 Proposed Workplan for Alternative Technology

| Activity | Day | | | | | | | | | | |
|---|-------|---|----|----|----|----|----|----|----|----|----|
| | 1 | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 |
| Review Existing Technologies | _____ | | | | | | | | | | |
| Select Alternative Technologies | _____ | | | | | | | | | | |
| Collaborate with Rehabilitation Effort | _____ | | | | | | | | | | |
| Develop Workshops to Introduce Alternative Technologies | _____ | | | | | | | | | | |
| Implement Workshops | _____ | | | | | | | | | | |

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3.10.5 Proposed Workplan for Drinking Water Quality Management Program

| Activity | Day | | | | | | | | | | | |
|----------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 1 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | |
| Develop Details of Scope of Work | | | | | | | | | | | | |
| Review Documentation | | _____ | | | | | | | | | | |
| Conduct Interviews | | | _____ | | | | | | | | | |
| Develop Objectives | | | | _____ | | | | | | | | |
| Agree on Objectives | | | | | _____ | | | | | | | |
| Develop Procedures | | | | | | _____ | | | | | | |
| Design Programme | | | | | | | _____ | | | | | |
| Develop Requirements | | | | | | | | | | | | |
| Space | | | | | | | _____ | | | | | |
| Equipment | | | | | | | | _____ | | | | |
| Supplies | | | | | | | | | _____ | | | |
| Human resources | | | | | | | | | | _____ | | |
| Transportation | | | | | | | | | | | _____ | |
| Develop Action Plan | | | | | | | | | | | | _____ |

3.10.6. Proposed Workplan for Performance Problem Solving and Job Aids Workshops

| Activity | Day | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|-------|---|---|-------|---|---|-------|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | |
| Review Data | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Interviews | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adapt Workshops | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - Front End Analysis | | | | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - Job Aids | | | | | | | _____ | | | | | | | | | | | | | | | | | | | | | | | | | |
| Implement Workshops | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - Front End Analysis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - Job Aids | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Improve Skills of Trainees | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - Front End Analysis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - Job Aids | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Develop Implementation Plan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

3.10.7 Proposed Workplan for Planning

| Activity | Day | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|-------|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | 1 | 3 | 5 | 7 | 9 | 11 | 13 | 15 | 17 | 19 | 21 | 23 | 25 | 27 | 29 | 31 | 33 | 35 | 37 | 39 | 41 | 43 | 45 | 47 | 49 | 51 | 53 | 55 | 57 |
| Review Existing Structure | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Review Reports | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Interview | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evaluate Existing Information Systems | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lines of Communication | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Delegation of Authority | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cost Setting Procedures | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Allocation of Resources | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Develop Long Term Planning Procedures | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

17

February 22, 1983

Technical Assistance With Design
of a Rural Water Supply Project - Thailand

AID/Thailand requested WASH assistance in preparing materials for a project paper for a rural water supply project. The Provincial Water Authority (PWA), which operates some 700 rural piped water systems, seeks to improve its capacity to design, install, manage and maintain these systems. The proposed project is intended to up-grade PWA's technical and management skills and identify measures to reduce capital and operating costs. The WASH consultants, working as members of the project design team, will specifically address requirements for manpower training needs assessments, and the planning and implementation of training delivery systems.

For further information contact Mr. D. Donaldson.

Up to seventy person days of effort, sixty days of international/domestic per diem and two international air round trips are authorized over a three month period. Local travel up to \$1600 and local secretarial, graphics and reproduction services up to \$560 are also authorized.

JEB/CIE

2/24/83

WATER AND SANITATION FOR HEALTH (WASH) PROJECT
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 139
February 22, 1983

TO: Dr. Dennis Warner, P.E.
WASH Contract Project Director

FROM: Victor W.R. Wehman, Jr., P.E., R.S. *VWW*
AID WASH Project Manager
AID/ST/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of
Work for USAID/Bangkok for Development of Background Material
for Rural Water Supply

REFERENCE: A) Bangkok 02379, dated 19 Jan 83
B) Bangkok 8579, dated 11 Feb 83
C) Oot/Austin Phone Con, 10 Feb 83

1. WASH contractor requested to provide technical assistance to USAID/Thailand as per Reference A), para. 1, 2, 4, 6B, 6C, and 6E. Technical assistance to consist of providing materials for project paper on rural water supply in areas of human resource development, engineering and financial management, operation and maintenance and administration of facilities and evaluation of all of the above.

2. WASH contractor/subcontractor/consultants authorized to expend up to 70 person days of effort over a three month period to accomplish this technical assistance effort.

3. Contractor authorized up to 60 person days of international and/or domestic per diem to accomplish this effort.

4. Contractor to coordinate with ASIA/TR/HN (J. Karam), ASIA/PD/ENGR (H. Hasan), AID/W Thailand Desk Officer and should provide copies of OTD #139 along with periodic progress reports as requested by S&T/H/WS or ASIA Bureau.

5. Contractor authorized to provide up to two international round trips from consultants' home base through Washington, D.C. to Bangkok and return to home base through Washington, D.C. during life of OTD.

6. Contractor authorized local travel in Thailand NTE \$1600 without the written approval of the AID WASH Project Manager.

7. Contractor authorized to obtain secretarial, graphics or reproduction services in Thailand as necessary to accomplish tasks. These services are in addition to the level of effort specified in paragraph(s) 2 and 3 above and NTE \$560 without prior approval of AID/WASH Manager.

8. Contractor authorized to provide for car or vehicle(s) rental, if necessary to facilitate effort. Mission is encouraged to provide vehicles, if available. *15000, J. J. P. & Assoc., Inc.*

FEB 23 1983

9. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract.

10. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subconsultants.

11. Contractor to supply technical analysis material to USAID Mission as requested. All material must be given to Mission before departure. Only an oral debriefing will be required in Washington. No formal written report on activity to be produced except for consultants report to project paper.

12. Mission should be contacted immediately and technical assistance initiated as soon as possible.

13. Appreciate your prompt attention to this matter. Good luck!

JHA/ddc

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PAGE 01 BANGKO 02379 01 OF 04 190514Z 5322 001001 410/335 ACT.CH AIG-00

BANGKO 02379 01 OF 04 190514Z 5072 001001 4107335

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AIDAC

FOR S&T/HEALTH

ED 12356: HA SUBJ: RURAL WATER SUPPLY: WORKSCOPE FOR PROJECT DESIGN TEAM

REFS A. WATER & SANITATION PROJECT PID, B. BANGKOK 00228

1. THE PURPOSE OF THIS CABLE IS TO REQUEST AID/W ASSISTANCE IN ASSEMBLING A CONSULTANT TEAM TO ASSIST WITH THE DESIGN OF A DOMESTIC WATER SUPPLY PROJECT. THE PURPOSE OF THE PROPOSED PROJECT, ELEMENTS OF WHICH WERE CONTAINED IN REF A AND FURTHER DESCRIBED IN REF B, IS TO ASSIST THE PROVINCIAL WATERWORKS AUTHORITY (PWA) IN IMPROVING ITS CAPACITY TO DESIGN, INSTALL, MANAGE, AND MAINTAIN THE 700 PLUS PIPED WATER SYSTEMS WHICH ARE MANAGED AND/OR SUPPORTED BY THE PWA.

2. IN ORDER TO DESIGN THIS PROJECT, USAID WILL REQUIRE TECHNICAL ASSISTANCE TO HELP COMPLETE THE FOLLOWING TASKS:

A. PROJECT BACKGROUND AND RATIONALE

1 - COLLECT AND REVIEW AVAILABLE DATA AND DESCRIBE THE CURRENT SITUATION WITH RESPECT TO THE AVAILABILITY OF SAFE DOMESTIC WATER SUPPLIES IN THAILAND. DESCRIPTION SHOULD INDICATE THE LEVELS OF WATER-RELATED DISEASE, FOCUSING ON THOSE WATERBORNE DISEASES (E.G., DIARRHEAL DISEASE AND PARASITIC INFECTIONS) WHICH ARE THE MOST IMPORTANT CAUSES OF INFANT AND CHILD MORBILITY AND MORTALITY. TO THE EXTENT POSSIBLE, ASSESSMENT WILL ALSO DESCRIBE INCIDENCE AND EFFECTS OF WATER-RELATED ILLNESS WITHIN THE ADULT POPULATION.

2 - REVIEW SHORT (5 YEARS) AND MEDIUM-TERM (5-10 YEARS) RTG AGENCY PLANS FOR INCREASING ACCESS TO SAFE SUPPLIES OF WATER FOR DOMESTIC USE. WITHIN CONTEXT OF THESE PLANS, DESCRIBE THE GOALS (IN BOTH QUALITATIVE AND QUANTITATIVE TERMS) OF THE PWA IN CARRYING OUT THESE PLANS. THIS SECTION SHOULD DESCRIBE PWA'S OBJECTIVES WITH REGARD TO INSTALLATION OF NEW SYSTEMS, REHABILITATION OF EXISTING SYSTEMS, AND PROJECTED INCOME AND EXPENDITURE LEVELS, AS WELL AS ACTIONS TAKEN OR PLANNED, TO INCREASE COST RECOVERY, THROUGH CHANGES IN USER CHARGES AND/OR REDUCTIONS IN CAPITAL AND OPERATING COSTS. PWA'S PRESENT FINANCIAL AND ORGANIZATIONAL CAPACITIES TO CARRY OUT THESE OBJECTIVES SHOULD BE DESCRIBED.

3 - BRIEFLY DESCRIBE THE RATIONALE FOR STRENGTHENING THE INSTITUTIONAL CAPABILITY OF PWA, AS OPPOSED TO OTHER PUBLIC (E.G., MUNICIPALITIES) AND PRIVATE ENTITIES, ENGAGED IN PROVIDING DOMESTIC WATER SUPPLIES.

D. PROJECT DESIGN

1 - ON THE BASIS OF DISCUSSIONS WITH PWA STAFF, OTHER DONORS (LENDER), AND A REVIEW OF VARIOUS ON-GOING OR PLANNED PROJECT DOCUMENTS, THE NEED TO UPSPACE TECHNICAL AND MANAGEMENT SKILLS AND REDUCE CAPITAL AND OPERATING COSTS HAVE EMERGED AS THE TWO MAJOR AREAS OF UNMET NEED. NEITHER OF THESE POTENTIAL AREAS OF INTERVENTION CAN BE ADEQUATELY ADDRESSED WITH THE RESOURCES CURRENTLY AVAILABLE TO PWA. THE DESIGN TEAM WILL PROCEED TO ADDRESS THESE SPECIFIC AREAS OF INTERVENTION AS FOLLOWS.

(1) MANPOWER TRAINING AND DEVELOPMENT

2 - BASED ON THOROUGH REVIEW OF PWA OPERATIONS, IDENTIFY THOSE PARTICULAR WEAKNESSES IN SYSTEM PERFORMANCE WHICH ARE BELIEVED TO BE A FUNCTION OF INADEQUATE TRAINING. THIS REVIEW, OR PRELIMINARY TRAINING NEEDS ASSESSMENT, WILL COVER EACH OF THE MAJOR AREAS OF PWA ACTIVITY, TO INCLUDE ENGINEERING, PLANNING, ADMINISTRATION, CONSTRUCTION, OPERATIONS, AND MAINTENANCE, WATER QUALITY SURVEILLANCE, AND TECHNICAL SUPPORT TO SMALL RURAL WATER SUPPLY SYSTEMS. HOWEVER, BASED ON CONSULTATIONS WITH PWA, AND A REVIEW OF OTHER DONOR/LENDER ACTIVITIES, IT IS UNDERSTOOD THAT THE PRIMARY FOCUS OF THIS ASSESSMENT SHOULD BE ON THE LAST THREE AREAS. IN EACH AREA, DESIGN TEAM WILL REVIEW AND ASSESS THE ADEQUACY OF

McJunkin
Witt
Austin
Weisman

Austin

Passed to ST/H/WS staff
1-20-83

W. S. ...

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PAGE 01 BANGKO 02379 02 OF 04 190516Z 5035 001062 AID7349 ACTION A/D-00

BANGKO 02379 02 OF 04 190516Z 5035 001062 AID7349

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BOTH WRITTEN POLICIES AND PROCEDURES AND FIELD OPERATIONS, AS WELL AS THE ADEQUACY OF STAFF, TECHNICAL SKILLS, AND EQUIPMENT.

3 - IN LIGHT OF PRECEDING ANALYSIS, REVIEW AND ASSESS ADEQUACY OF EXISTING TRAINING ORGANIZATION WITHIN THE PWA. ASSESSMENT WILL INCLUDE REVIEW OF NUMBER AND TYPE OF PERSONS INVOLVED IN TRAINING, ADEQUACY OF BOTH TECHNICAL AND TRAINING SKILLS, BUDGET AVAILABILITY, APPROPRIATENESS OF EXISTING TRAINING PRIORITIES, AND AVAILABILITY OF TRAINING MATERIALS AND AIDS; AND

4 - ON BASIS OF THIS ASSESSMENT, DEVELOP PRELIMINARY MANPOWER TRAINING AND DEVELOPMENT PLAN WHICH WILL MEET EXISTING AND LONGER-TERM, TRAINING NEEDS OF THE ORGANIZATION. PLAN SHOULD STATE BOTH IMMEDIATE AND MEDIUM-TERM TRAINING PRIORITIES, STAFF, AND BUDGET REQUIRED TO IMPLEMENT THE PLAN, AND

5 - SEQUENCE AND TYPE OF TRAINING ACTIVITIES TO BE CARRIED OUT. PLAN SHOULD SPECIFY THE INPUTS EXPECTED FROM PWA ITSELF, OTHER DONORS AND LENDERS, AND THOSE REQUIRED FROM USAID. THE FINAL VERSION OF THIS TRAINING PLAN, WHICH IS EXPECTED TO BE THE FIRST OUTPUT OF THE NEW PROJECT, WILL BENEFIT FROM OTHER ON-GOING EFFORTS, WHICH WILL BE UNDERTAKEN OVER THE NEXT 6-8 MONTHS, TO FURTHER DEFINE TRAINING NEEDS.

6 - AS PART OF THE EFFORT TO STRENGTHEN THE MANPOWER TRAINING AND DEVELOPMENT DEPARTMENT (MTDD), AN INFORMATION SYSTEM WILL BE ESTABLISHED TO MONITOR THE OPERATION OF ALL WATERWORKS UNDER PWA'S RESPONSIBILITY. THIS SYSTEM WILL SERVE TO MONITOR COMPLIANCE WITH PERFORMANCE STANDARDS, AND WILL HELP IDENTIFY TRAINING NEEDS (PRODUCED PARTICULARLY AT THE OPERATIONAL LEVEL) ON AN ON-GOING BASIS. THE DESIGN TEAM, IN COLLABORATION WITH PWA COUNTERPARTS, WILL BE RESPONSIBLE FOR DEFINING BOTH THE NATURE AND SCOPE OF THE INFORMATION SYSTEM, AS WELL AS THE FINANCIAL AND MANPOWER INPUTS NEEDED TO ESTABLISH AND MAINTAIN IT.

4 - (2) IMPROVED SYSTEM DESIGN AND COST RECOVERY

7 - BASED ON A PRELIMINARY REVIEW OF PWA OPERATIONS, IT APPEARS THAT THERE IS SIGNIFICANT POTENTIAL FOR REDUCING WATER SYSTEM CAPITAL AND OPERATING COSTS, EITHER THROUGH MODIFICATIONS IN EXISTING DESIGNS, OR THROUGH THE USE OF ALTERNATIVE SYSTEM TYPES. THERE IS ALSO A NEED TO EXPERIMENT WITH ALTERNATIVE APPROACHES TO IMPROVING COST RECOVERY (E.G. IMPROVED OR SHAPED METERING, ETC.) IN THIS CONNECTION, THE DESIGN TEAM WILL BE RESPONSIBLE FOR THE FOLLOWING:

8 - REVIEW OF EXISTING SYSTEM ENGINEERING DESIGN AND FEE COLLECTION PROCEDURES. WASH FIELD REPORT NO. 19 SHOULD BE PARTICULARLY USEFUL IN THIS REGARD.

9 - IDENTIFY POTENTIAL COST-SAVING DESIGN MODIFICATIONS AND APPROACHES TO IMPROVING COST RECOVERY. DESCRIPTION SHOULD SPECIFY TECHNICAL AND COMMODITY ASSISTANCE NEEDED TO DESIGN AND TEST THESE MODIFICATIONS AND/OR APPROACHES.

10 - (3) EVALUATION

- AS PART OF PROJECT FORMULATION PROCESS, USAID EXPECTS TO FULLY ADDRESS ISSUE OF PROJECT EVALUATION. THIS WILL INCLUDE A CLEAR STATEMENT OF THE CRITERIA/INDICATORS FOR MEASURING PROGRESS TOWARD ACHIEVEMENT OF PROJECT PURPOSE, AS WELL AS THE SPECIFICATION OF THE METHODOLOGY TO MONITOR/EVALUATE PROJECT PERFORMANCE ON AN ON-GOING BASIS.

G. PREPARATION OF PROJECT PAPER

- THE PRECEDING INFORMATION WILL BE USED TO DRAFT THE DETAILED DESCRIPTION, FINANCIAL PLANS, AND IMPLEMENTATION ARRANGEMENTS FOR THE PROPOSED PROJECT. IN ADDITION, DESIGN TEAM MEMBERS WILL PARTICIPATE, IN COLLABORATION WITH CONCERNED USAID STAFF, IN PREPARING EACH OF THE PROJECT ANALYSES, EVALUATION PLAN, ETC. AS REQUIRED IN THE PROJECT PAPER.

3. TENTATIVE SCHEDULE IS AS FOLLOWS:

- FEB. 20, 1983 - DESIGN TEAM ARRIVES.

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- APRIL 2, 1983 - DESIGN TEAM COMPLETES REQUIRED REPORTS.

- APRIL 9, 1983 - FIRST DRAFT PP COMPLETED.

- APRIL 30, 1983 - PLA/USAID REVIEW COMPLETED AND COMMENTS RECEIVED.

- MAY 31, 1983 - FINAL VERSION OF PP COMPLETED.

- JULY 1, 1983 - USAID AND RTG REVIEW COMPLETED AND CONCURRENCE RECEIVED.

- JULY 15, 1983 - PROJECT AGREEMENT SIGNED.

4. REQUEST SERVICES OF JOHN AUSTIN, SST/HEALTH, TO SERVE AS DESIGN TEAM LEADER. PROPOSE THAT DAN EDWARDS (WHO PARTICIPATED WITH AUSTIN IN RECENT TRAINING WORKSHOP AT PVA) WHOM WE EXPECT WILL ALREADY BE IN THAILAND ON UNCP-SUPPORTED CONSULTANCY TO PVA, ALSO PARTICIPATE IN THE PROJECT DESIGN. BOTH AUSTIN AND EDWARDS ARE ALREADY FAMILIAR WITH PVA TRAINING NEEDS AND HAVE EXCELLENT RAPPORT WITH KEY STAFF. ALSO REQUEST PERSON WITH TECHNICAL SKILLS AND RELEVANT FIELD EXPERIENCE NEEDED TO DESIGN PROJECT COMPONENT DESCRIBED IN PARA FOUR ABOVE, AND TO FOCUS ON OPERATIONS AND MAINTENANCE ELEMENT OF TRAINING PROGRAM.

5. IF POSSIBLE, SUGGEST THAT AUSTIN PARTICIPATE IN INITIAL PROJECT DESIGN, PROCEED TO CRI LANKA FOR OTHER ASSIGNMENTS, AND THEN RETURN TO THAILAND EN ROUTE BACK TO THE U.S. IN LATE APRIL OR EARLY MAY TO ASSIST IN PREPARING FINAL VERSION OF PP.

6. BASED ON FOREGOING, EXPECTED REQUIREMENTS WILL BE AS FOLLOWS:

- A. JOHN AUSTIN - 8 WEEKS.

- 16 WEEKS INITIAL DESIGN, 2 WEEKS FOR PREPARING FINAL VERSION).

- B. DAN EDWARDS (OR SOMEONE WITH EQUIVALENT TRAINING SKILLS) - 5 WEEKS

- C. DESIGN ENGINEER - 5 WEEKS - RONALD CAMPBELL, CURRENTLY EMPLOYED BY ENGINEERING-SCIENCE, HAS BEEN RECOMMENDED TO US. HARVEY LUDWIG, MEMBER OF LOCAL CONSULTING FIRM CALLED SEATEC, IS ALSO A POSSIBILITY. ART BRUESTLE OF WORLD BANK CAN PROVIDE FURTHER INFORMATION REGARDING BOTH OF THESE PERSONS.

- D. STEVE HORTON - 4 WEEKS - USAID WELCOMES PARTICIPATION OF HORTON, HOWEVER REGRET THAT NO MISSION FUNDING IS AVAILABLE. PLEASE ADVISE IF AID/W WILL SUPPORT HORTON.

- E. EVALUATION SPECIALIST - 2-3 WEEKS - REQUEST PERSON WITH SKILLS AND EXPERIENCE IN DESIGNING BUILT-IN PROJECT EVALUATION SYSTEM. IF POSSIBLE, PREFER PERSON WITH PRIOR EXPERIENCE RELATED TO WATER SUPPLY PROJECTS.

7. WOULD APPRECIATE AID/W COMMENTS REGARDING PROPOSED WORKSCOPE TEAM MEMBERS, AND TIMETABLE. FURTHER, REQUEST AID/W:

- A. TO ADVISE JOHN AUSTIN'S AVAILABILITY;

- B. CONTACT DAN EDWARDS TO CONFIRM AVAILABILITY;

- C. CONTACT BRUESTLE OF WORLD BANK TO EVALUATE SUITABILITY OF CAMPBELL OR LUDWIG;

- D. CONTACT CAMPBELL TO DETERMINE AVAILABILITY IF HE APPEARS TO BE MOST SUITABLE AS DESIGN ENGINEER;

- E. IF ANY PROPOSED MEMBER UNAVAILABLE, RECOMMEND ALTERNATIVES TO PROPOSED COMPOSITION OF TEAM;

- F. PROCEED TO MAKE PRELIMINARY ARRANGEMENTS FOR DESIGN TEAM TO ARRIVE AS SCHEDULED.

8. FISCAL DATA WILL BE FORWARDED UPON RECEIPT YOUR COMMENTS/CONCURRENCE AND ALLOCATION OF POS FUNDS WHICH USAID IS REQUESTING IN SEPTEL. APPRECIATE ASSISTANCE IN EXPEDITING SUBJECT ALLOCATION IN

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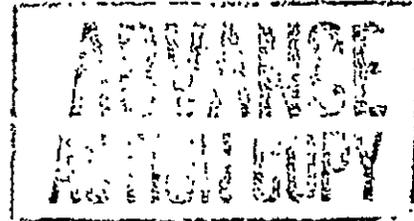
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AIDAC

FOR SE&P/HEALTH AND AS/ACTR/PNHR

E.O. 12958 NA SUBJ: PROVINCIAL WATER SUPPLY. PROJECT DESIGN TEAM

McJunkin Austin Witten WETHEMATT JW

REF A. BANGKOK 02079 B. OOI-AUSTIN TELECON FEB 10, 1983

- 1. AS DISCUSSED IN REFTELECON, REQUEST A/D/W PROCEED TO ISSUE PLO/T'S AND CONTRACT DIRECTLY WITH INDIVIDUALS OF MAPE BLOOM CR-NT TO WASH FOR DESIGN TEAM SERVICES DESCRIBED IN REF A. IN ORDER TO ENSURE AVAILABILITY OF AUSTIN, AND TO TAKE ADVANTAGE OF DAN EDWARDS PRESENCE IN THAILAND, WILL NEED TO MOVE QUICKLY TO ASSEMBLE TEAM.
2. USAID AUTHORIZES A/D/W TO PROCEED WITH WHICHEVER CONTRACTING MODE APPEARS TO BE MOST EXPEDITIOUS.
3. PLEASE ADVISE. EBY

Received ST/H/US (WETHEMATT) 2-11-83
Passed to WASH 2-11-83
Not passed to WASH. TO WASH: 14 Feb 83 JWG

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OTD # 155 - August 18, 1983

Technical Assistance in Evaluation
of CARE Water Program - Indonesia

AID/Indonesia requested WASH assistance in conducting the second part of the evaluation of the CARE Water Project. The first part of the evaluation was completed by CARE in August and was concerned with technical aspects of the project. The second part will analyze the approach that CARE takes in planning, implementing, and maintaining its water projects, focusing on the effectiveness and appropriateness of CARE's community involvement approach. The scope of work includes evaluation of CARE's field staff, of CARE's community involvement approach, and the involvement of the Government of Indonesia in CARE water project activities. Recommendations will address how the CARE approach and training program might be incorporated into Government operations, how it might be used by other development organizations and PVOs, and how alternative financing methods may be applicable to CARE water projects.

For further information contact Mr. D. Donaldson.

Up to forty-seven person days, thirty-five days of international/domestic per diem and one international air round trip are authorized over a four month period. Local travel up to \$3,200 and up to \$700 for local secretarial, graphics and reproduction services are also authorized.

JEB/CIC
8/31/83

WATER AND SANITATION FOR HEALTH (WASH) PROJECT
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 155
18 August 1983

TO: Dr. Dennis Warner, Ph.D., P.E.
WASH Contract Project Director

FROM: Mr. Victor W.R. Wehman Jr., P.E., R.S. *VWW*
AID WASH Project Manager
AID/S&T/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project
Scope of Work for USAID/Indonesia and CARE/Indonesia

REFERENCES: A) Jakarta 11218, dated 20 July 1983
B) CARE Water Project Evaluation--Scope of Work
C) CARE WATER Project Evaluation---Terms of Reference
D) Jakarta 12085, dated 3 August 1983
E) WASH Telex, dated 10 August 1983
F) Jakarta FAXGRAM, dated 10 August 1983
G) Jakarta FAXGRAM, dated 12 August 1983
H) WASH Telex, dated 16 August 1983

1. WASH contractor requested to provide technical assistance to USAID/Indonesia and CARE/Indonesia as per Ref A, B, C and E.
2. WASH contractor/subcontractor/consultants authorized to expend up to 47 person days of effort over a four (4) month period to accomplish this technical assistance effort.
3. Contractor authorized to expend up to 35 person days of international/domestic per diem to accomplish this effort.
4. Contractor to coordinate with ASIA/TR/HNP (B. Goldman), ASIA/PD/ENG (H.Hasan), AID/ASIA desk officer and should provide copies of this OTD along with periodic progress reports as requested by S&T/H or ASIA Bureau staff.
5. Contractor authorized to provide up to one (1) international round trip from consultants home base through Washington to Indonesia and return through Washington D.C. (for debriefing) to consultants home base
6. Contractor/consultants authorized local travel within Indonesia as necessary and appropriate to accomplish technical assistance effort NTE \$1700 without the prior written approval of the AID WASH Project Manager.

Camp, Dresser & McKee, Inc.
WASH PROJECT

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7. Contractor authorized to obtain local secretarial, graphics or reproduction services in Indonesia as necessary and appropriate to accomplish tasks. These services are in addition to the level of effort specified in para 2 and 3 above NTE \$700 without the prior written approval of the AID WASH Project Manager.
8. Contractor authorized to provide for car, vehicle or aircraft rental as appropriate and necessary to accomplish this technical assistance NTE \$1500 without the prior written approval of the AID WASH Project Manager.
9. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract.
10. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.
11. New procedures regarding cost estimates from subcontractors and selection justification of subcontractors/consultants remains in effect.
12. Contractor to provide coordinated draft report in field to USAID/Indonesia and CARE/Indonesia before the consultant leaves the field. Final report due to USAID/Indonesia within 30 days of return of consultants from the country and entry into the U.S.
13. USAID/Indonesia and CARE/Indonesia should be contacted immediately and technical assistance initiated as soon as convenient to USAID/CARE Indonesia.
14. Appreciate your prompt attention to this matter. Good luck.

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AIDAC FOR VIC WEHMAN, S&T/H/WS

EO 12355: M/A

SUBJECT: EVALUATION OF CARE WATER PROJECT: WASH PARTICIPATION

Austin
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~~with~~ GW

1. CARE AND THE MISSION HAVE AGREED ON A SCOPE OF WORK FOR THE EVALUATION OF THE AID FUNDED CARE WATER PROGRAM IN INDONESIA. THE SCOPE IS BASED ON THE WORK BOB GEARHEART DID EARLIER THIS YEAR ON A WASH CONSULTANCY. A COMPLETE COPY OF THE FINAL SCOPE IS BEING POUCHED TO YOU AND WASH. CARE IS PLANNING TO CONDUCT THE EVALUATION IN SEPTEMBER. WE WOULD LIKE TO DRAW ON A WASH CONSULTANT WITH BROAD EXPERIENCE IN HEALTH PLANNING TO ACT AS THE TEAM LEADER FOR THE EVALUATION. THIS INDIVIDUAL WOULD BE EXPECTED TO ARRIVE IN INDCONESIA AROUND THE FIRST OF SEPTEMBER AND TO BE AVAILABLE UNTIL THE EVALUATION REPORT IS COMPLETED BY AROUND THE 26TH OF SEPTEMBER. THE SCOPE OF WORK SPELLS OUT THE TIMETABLE INVOLVED AND IDENTIFIES OTHER SKILLS WHICH WILL BE INVOLVED IN THE EVALUATION.

2. THE PLANNER AS THE SENIOR MEMBER OF THE TEAM SHOULD HAVE A BROAD BACKGROUND IN COMMUNITY WATER SUPPLY AND, IDEALLY, A GOOD KNOWLEDGE OF INDONESIAN CONDITIONS. FLUENCY IN BAHASA INDONESIA IS DESIRABLE BUT NOT REQUIRED. IN ADDITION TO LEADING THE TEAM THE PLANNER WILL GIVE SPECIAL ATTENTION TO ASSESSING GOI ATTITUDES ON THE CARE PROGRAM, REVIEWING CARE'S PROGRAM FOR TRAINING GOI OFFICIALS AND FOPMULATING PRACTICAL RECOMMENDATIONS FOR THE FUTURE OF GOI/CARE COLLABORATION. THE OTHER MEMBERS OF THE TEAM WILL BE TWO GOI OFFICIALS, ONE CARE REPRESENTATIVE AND ONE INDONESIAG RURAL SOCIOLOGIST OR ANTHROPOLOGIST.

3. PLEASE ADVISE AVAILABILITY OF CANDIDATES AND PROVIDE DETAILS OF THEIR BACKGROUNDS. MANY THANKS. HOLDRIDGE

Received S&T/H/WS (Wehman) 7-22-83
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WASH PROJECT

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CARE WATER PROJECT EVALUATION

SCOPE OF WORK

I. Background

CARE has been working in Indonesia since 1967, initially in food assistance, training of hospital and health personnel and school construction. In 1977, CARE began implementing community development programs giving emphasis on rural community drinking water programs and sanitation facilities through construction and/or development and the installation of gravity water systems, storage reservoirs, piped water systems, handpumps, rainwater catchment tanks and public bathing and toilet facilities. Presently CARE has 4 project areas: West Java, NTB, Sulawesi and Bali and is considering working in East Java in the future. CARE has received \$2,050,029 in AID co-fi funds since 1979, and will receive an additional \$161,356 to continue project activities through CY 1983 in NTB, Bali and West Java.

The purpose of CARE's water projects in all the project locations is to improve the physical health and well-being of the communities through the provision of safe water and sanitation facilities. More specifically, CARE provides partial support to communities so they can develop, construct and maintain appropriate potable water sources (i.e. piped water systems, handpumps) to provide at least 20 liters/day/person of safe drinking water in each of the project areas. Training sessions in water systems planning, design and implementation, as well as health education are also conducted.* Secondary activities which relate the water projects to community development, such as reforestation and fish pond development, are another focus of CARE's program.

CARE's direct counterparts are the Provincial Governments or more precisely the Provincial Planning Boards (BAPPEDAs). The Provincial Governments propose the project sites and CARE makes the necessary survey and investigation, sometimes with the government staff, before accepting the sites. Considerations for selection include a technical feasibility assessment, looking at the community's willingness to participate in the system's implementation and maintenance, and an evaluation of cost effectiveness. Several sites have also been selected as a result of CARE's own observations and/or as requested by the community. Final selection is always done in consultation with government counterparts.

* It should be understood that this is the method that has evolved from CARE's experiences after implementing projects for sometime. The earlier projects may not have had all the training or health education components.

Received ST/H/WS (Wehman) 7-29-83
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When a site is selected, CARE then prepares the design. As much community participation as possible is solicited in choosing the pipeline course and selecting the location for the public reservoirs or public standposts. At the same time CARE provides extension services to the community to get their participation in providing local materials, digging pipeline trenches and back filling, etc.

The actual construction work always involves several villagers. They are trained in how the system works, how it should be maintained, and in how to overcome common problems. These citizens usually take charge of the operation and maintenance of the systems when they are completed.

Village leaders are also encouraged to establish a committee for the implementation of the project which should then continue to manage the system. In most cases, though, the villagers tend to use the already existing IKMD (Village Council) as both an implementation and maintenance committee. The committee also establishes a users' payment system and appoints the person in charge of the operation and maintenance of the system. Usually that villager is paid in cash or in-kind for his services.

CARE maintains a Field Office in each province where there are project activities. The office is staffed by a Chief Representative, a Program Officer, 4 or 5 Field Officers and administrative staff. CARE/Bali is being phased out and maintains only ___ Field Officers to carry out the training program. CARE/Indonesia's Headquarters in Jakarta is staffed by the Country Director, a Program Coordinator and administrative staff.

II. Purpose of the Evaluation

CARE has carried out its own evaluation, Phase I of the overall evaluation, to assess the technical quality of the water systems built and/or installed by CARE under AID co-fi grants over the past 3 years. This evaluation included site visits by CARE staff to almost all the AID funded water projects. Its purpose was to assess the technical quality of the systems installed or built by CARE, history of use and maintenance of the systems by the community, material costs of the systems, and to a limited extent, impact of the water systems on village beneficiaries. The latter subject engendered questions about beneficiary views on the quality of the water, their participation in building the system, previous and present water sources used, what they use water for, changes they see in their family, home, and village since the CARE system was built, what benefits and problems they experience due to CARE's water system. The results of this first phase of the evaluation represent the foundation, especially in terms of indicating technical quality and appropriateness of CARE's water systems, for the second phase of the overall evaluation.

During the second part of the evaluation (Phase II and III), USAID/I would like to analyze CARE's approaches in planning and implementing their water projects. This will include looking at the possibility of wide-scale replication and adoption of CARE's methods by other agencies, the GOI, and/or PVOs. This part of the evaluation will focus on the effectiveness and appropriateness of CARE's "community involvement" approach to planning, implementing and maintenance of water projects. It will also assess GOI perception of, involvement, and degree of familiarity with CARE's water projects. During Phase IV of the evaluation team will make recommendations to CARE, and, if appropriate to the GOI, concerning planning and future implementation of projects in the water sector.

III. Questions to be addressed by the Evaluation

A. CARE's Field Staff

1. How staff intensive is CARE's method for involving the community in water projects?
2. What is the typical background and experience of field staff? Has/does CARE provide training for their field staff? If so, in what areas (technical, project planning, community development?) For how long?
3. What is the incentive for field workers ensuring maximum community participation in water projects?
4. What is CARE's cost of maintaining its field staff (including travel, per diem, salaries)?

B. CARE's Community approach

1. Level of community participation
 - a. site selection (village)
 - b. site selection (water system, components)
2. What process is used to select committee/person in charge of maintenance?
3. Method and content of training - of villagers
- of GOI officials
4. Implications of community involvement for
 - a. maintenance of system
 - b. appropriateness of system used
 - c. use of system by community members
 - d. involvement in planning future village water projects

C. GOI Involvement

Is GOI familiar with CARE's projects, CARE's approach to and methods of project implementation?

1. At what levels in the GOI?
2. Which GOI agencies? (DEPKES, DEPSOS)?
3. What is GOI perception of CARE's work in water systems?
4. What role does GOI perceive for its involvement with CARE presently? In the future?

D. Recommendations for future directions of CARE project

1. Should steps can be taken to see that CARE's approach to water systems is incorporated into the GOI's system? If so, what steps?
2. Are there other agencies, (PVOs, UNICEF; WHO, etc.) who would benefit from becoming familiar with CARE's work?
3. Future utilization of CARE's training program for GOI and/or other agencies.
4. Are there alternative, perhaps community based, methods for financing capital costs of CARE projects?

IV. Team Composition

Core Team

1. Rural Sociologist/Anthropologist - village level interviewing - survey/questionnaire development; assess how CARE has involved communities; effect of this involvement on success of project.
2. Health Planner perhaps from WASH with background in water systems. Will assess GOI present knowledge of CARE's activities. Will provide input into developing recommendations which can be utilized by the GOI in its future water projects. Will assess CARE's program for training GOI officials.
3. Representative from CARE - will provide information about CARE's methods of project planning and implementation, technical aspects of water system. Summarize results of CARE's own technical evaluation.
4. Representatives from the GOI Ministry of Home Affairs, Ministry of Health.

Information Resources

From CARE, USAID, GOI (Cipta Karya, Department of Health, BAPPEDAs), UNICEF; WHO, as needed, to provide project specific information or clarifications on water sector in general in Indonesia.

V. Schedule of Evaluation

A. Four Phases:

Phase I: CARE's internal technical evaluation: Field work for this evaluation, discussed above, will be completed by mid August 1983. The results will be available by September 1, 1983.

Phase II: Evaluation of CARE's approach to project planning and implementation. The core team will be assembled. They will discuss and develop a questionnaire for soliciting information from villages to assess community participation. The results of the questionnaire will provide insight on how the community's participation has affected the planning, implementation and maintenance of the village water system and how the villagers perceive the water system. Development of the questionnaire should take 2-3 days.

Phase III: The Core team will go to each of the 3 provinces covered by the AID co-fi grants (West Java, Bali and NTB) to gather information from villagers during site visits (using questionnaire developed in Phase II). Regional CARE offices, BAPPEDAs of each involved province and Department of Health will serve as sources of information, provide logistical support and assist the evaluation as needed. This phase will be approximately 16 days.

Phase IV: The team will compile data gathered and make recommendations. Recommendations will be in a form such that they can be used by the GOI in particular and other agencies in general, in the future. The team will have approximately 6 days to draft the report, and will keep USAID and CARE informed during the process of developing the report. If deemed appropriate by CARE and USAID, the core team will discuss their findings with and solicit input from GOI officials before finalizing the report.

B. Timing

CARE's evaluation of the technical aspects of their program (Phase I) is scheduled to be completed by mid-August 1983. Phase II will be scheduled to begin September 1, 1983 (with the assembly of the team in Indonesia). Phase III will begin o/a September 5 and end September 20. Phase IV will end o/a September 26, 1983.

VI. Reports

Before the scheduled end of the evaluation, the core team will leave with USAID and CARE a draft of the final report with findings and recommendations. The final version of the report will be sent to USAID and CARE and then be translated into Indonesian for distribution within the GOI (Department of Health, BAPPEDAs).

MBrown:as:7/20/83

Cleared in draft:
VHP:WNorth

OTD # 156 - August 30, 1983

Technical Assistance in Evaluation of National Institute
of Health Science Project - Sri Lanka

AID/Sri Lanka requested WASH assistance in the mid-project evaluation of the National Institute of Health Science Project in the Ministry of Health, Sri Lanka. The WASH consultant will be a member of the evaluation team and will provide expertise in public health, water supply, sanitation and institutional training of community workers at the paraprofessional level in developing countries.

For further information, contact Mr. C. Hafner.

Up to forty-two days of effort, thirty-five days of international/domestic per diem and one international air round trip are authorized over a four month period. Local travel up to \$400 and local secretarial, graphics or reproduction services up to \$300 are also authorized.

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AUG 31 1983

WATER AND SANITATION FOR HEALTH (WASH) PROJECT
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 156
August 30, 1983

TO: Dr. Dennis Warner, P.E.
WASH Contract Project Director

FROM: Victor W.R. Wehman, Jr., P.E., R.S. *VWW*
AID WASH Project Manager
AID/ST/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of
Work for USAID/Sri Lanka for the Public Health Evaluation

REFERENCE: A) August 22nd memo to Austin from Pines (ASIA/DP/E)
B) Cable State 241175, Aug. 25, 1983
C) Cable Colombo 3573, June, 1983
D) NIHS - Scope of Work

1. WASH contractor requested to provide technical assistance to USAID/Sri Lanka as per Reference A. Technical Assistant to consist of one consultant, water/public health specialist to participant in evaluation described in Scope of Work, Ref. D..
2. Wash contractor/subcontractor/consultants authorized to expend up to 42 person days of effort over a 4 month period to accomplish this technical assistance effort.
3. Contractor authorized up to 35 person days of international and/or domestic per diem to accomplish this effort.
4. Contractor to coordinate with ASIA/TR/HN (Bill Goldman), ASIA/PD/ENG (Hasan Hasan), AID/Sri Lanka Desk Officer and should provide copies of OTD #156 along with periodic progress reports and ETA information as requested by S&T/H/WS and/or ASIA Bureau Staff.
5. Contractor authorized to provide up to one (1) international round trips from consultants' home base through Washington, D.C. to Sri Lanka and return to home base through Washington, D.C. during life of this OTD.

6. Contractor authorized local travel in Sri Lanka as necessary and appropriate to accomplish mission NTE \$400 without the prior written approval of the AID WASH Project Manager.

7. Contractor authorized to obtain secretarial, graphics or reproduction services in Sri Lanka as necessary to accomplish tasks. These services are in addition to the level of effort specified in paragraph(s) 2 and 3 above and NTE \$300 without written approval of AID WASH Project Manager.

8. Contractor authorized to provide for car(s) or vehicle(s) rental if necessary to facilitate effort. Mission is encouraged to provide Mission vehicles, if available and appropriate.

9. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism.

10. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.

11. Contractor to provide coordinated draft report to USAID/Sri Lanka before consultant leaves the field. Final report in English is due to AID within 30 days after return of consultant to the U.S.

12. New procedures regarding subcontractor cost estimates and contractor selection justification for consultants remains in effect.

13. Mission should be contacted immediately and technical assistance initiated as soon as possible.

14. Appreciate your prompt attention to this matter. Good luck!

JHA/ddc

UNITED STATES INTERNATIONAL DEVELOPMENT COOPERATION AGENCY
AGENCY FOR INTERNATIONAL DEVELOPMENT
WASHINGTON, D C. 20523

22 August 1983

MEMORANDUM

TO : S&T/HEA, John Austin
FROM : ASIA/DP/E, Sharon Pines
SUBJECT : Request for WASH Assistance

We are requesting WASH assistance in obtaining the services of a water and sanitation expert for participation in an evaluation of Sri Lanka's National Institute of Health Sciences Project. Specifically, we are interested in an individual with a Public Health background and specialization in water and sanitation. Furthermore, this individual should have experience working with health institutions training community workers at the paraprofessional level in developing countries. The evaluation will begin September 19 and continue for four weeks.

UNCLASSIFIED
Department of State

OUTGOING
TELEGRAM

PAGE 01 STATE 241175
ORIGIN AID-00

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STATE 241175

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ORIGIN OFFICE ASDP-02
INFO ASPH-02 PPCE-01 PPPB-02 ASPD-03 ASTR-01 STHE-01 SAST-01
HHS-09 RELO-01 STHP-01 MAST-01 /025 A6

INFO OCT-08 IHR-18 EB-08 NEA-07 /068 R

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APPROVED BY AID/ASIA/DP/E:LSMUCKER
AID/ASIA/PNS:JGUNNING (DRAFT)
AID/ASIA/TR:HRICE (DRAFT)
AID/S&T:JAUSTIN (SUBSTANCE)
AID ASIA/PNS:FFISCHER (INFO)
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TAGS:

SUBJECT: NHS PROJECT EVALUATION

REF: STATE 232412

1. ON AUGUST 15, DR. TAINTOR MET WITH H RICE AND S PINES TO DISCUSS SCOPE OF WORK AND POTENTIAL CANDIDATES FOR SUBJECT EVALUATION. THE GROUP AGREED THAT THE PREFERRED BACKGROUND OF SECOND U.S. CONSULTANT SHOULD BE PUBLIC HEALTH WITH SPECIALIZATION IN WATER AND SANITATION. TWO QUALIFIED CANDIDATES HAVE BEEN IDENTIFIED FOR TEAM. AID/W RECOMMENDS DR. FAIGENBLUM AS THE PREFERRED CANDIDATE DUE TO HIS EXPERTISE IN ENVIRONMENTAL HEALTH. UNLESS USAID/COLOMBO HAS AN OBJECTION, AID/W WOULD LIKE TO COMMENCE WITH CONTRACTING FOR FAIGENBLUM'S SERVICES THROUGH WASH.

2. BIODATA FOLLOWS FOR TWO POTENTIAL CANDIDATES TO FILL THE SECOND U.S. CONSULTANT SLOT ON SUBJECT EVALUATION:

THROUGH JOHN AUSTIN OF S&T, WE HAVE REQUESTED WASH ASSISTANCE IN OBTAINING THE SERVICES OF AN ENVIRONMENTAL HEALTH EXPERT. AFTER REVIEW OF A NUMBER OF CV'S, JACQUES FAIGENBLUM WAS RANKED BY JOHN AUSTIN AS THE MOST QUALIFIED. DURING 1971 TO 1977, DR. FAIGENBLUM, A PH.D IN ENVIRONMENTAL HEALTH, PARTICIPATED IN TWO AID-FUNDED RESEARCH EFFORTS IN RURAL GUATEMALA UNDER ONE PROJECT, HE FORMULATED METHODOLOGY AND DESIGNED AND SUPERVISED DATA COLLECTION FOR THE SANITATION COMPONENT OF A PROJECT EVALUATING HEALTH IMPACT ON RURAL VILLAGES. UNDER THE SECOND PROJECT, DR. FAIGENBLUM, AS A FIELD LIAISON OFFICER FOR THE INSTITUTE OF NUTRITION OF CENTRAL AMERICA AND PANAMA, OFFERED ASSISTANCE IN THE TRAINING OF LOCAL FIELD STAFF. FROM 1977 TO 1981, DR. FAIGENBLUM, AS AN ASSISTANT PROFESSOR OF ENVIRONMENTAL HEALTH AT THE SCHOOL OF PUBLIC HEALTH AND COMMUNITY MEDICINE DEVELOPED THE GRADUATE PROGRAM IN ENVIRONMENTAL HEALTH PROGRAM MANAGEMENT. IN 1982, FAIGENBLUM WAS TEAM LEADER OF A HEALTH EVALUATION OF AN AID PROJECT IN TANZANIA. DR. FAIGENBLUM IS AVAILABLE DURING THE TIME REQUESTED. AN ALTERNATE CANDIDATE BUT ONE WITHOUT A SPECIALIZATION IN WATER AND SANITATION, IS DR. DORIS STORMS. DR. STORMS, A FACULTY MEMBER AT JOHN HOPKINS INTERNATIONAL HEALTH AND FORMER ASSISTANT DEAN FOR PROGRAM EVALUATION IN HOPKINS

SCHOOL OF HEALTH, IS THE AUTHOR OF TRAINING AND WORKING WITH AUXILIARY HEALTH WORKERS. MOST RECENTLY, DR. STORMS DIRECTED A FOUR-WEEK PEACE CORPS TRAINING PROGRAM FOR THAILAND NUTRITION/HEALTH WORKERS. DURING 1978-1981, DR. STORMS WAS COORDINATOR OF AN AID PROJECT FOCUSING ON LOW-COST EFFORTS TO IMPROVE TRAINING FOR PRIMARY HEALTH CARE WORKERS IN JAMAICA. DURING THE LAST SEVERAL YEARS, STORMS HAS ALSO PERFORMED AS A CONSULTANT ON: AN EVALUATION OF TWO-YEAR PRIMARY CARE NURSE PROGRAM IN DOMINICA, A HEALTH SECTOR ASSESSMENT TEAM FOR USAID/EGYPT; WHO QUOTE WORKSHOP ON COMMUNITY HEALTH WORKERS UNQUOTE. DR. STORMS IS ALSO AVAILABLE DURING THE TIME REQUESTED.

3. PLEASE SEND PRIORITY RESPONSE. TRAVEL FUNDS HAVE BEEN APPROVED FOR SHARON PINES' PARTICIPATION IN THIS EVALUATION. PLEASE ADVISE IF THIS IS ACCEPTABLE WITH MISSION AS YOU MAY KNOW MS. PINES HAS CONSIDERABLE EXPERIENCE IN THE EVALUATION OF HEALTH SECTOR PROJECTS. AID/W BELIEVES HER PARTICIPATION WOULD STRENGTHEN OUR UNDERSTANDING OF MISSION APPROACHES TO HEALTH SECTOR PROBLEMS IN SRI LANKA AND WOULD ADD STRENGTH TO EVALUATION TEAM. DAM

Austin

To WASH: 26 AUG 83 JJA

Jamp, Gresser & McKee, Inc.
WASH PROJECT

AUG 27 1983

UNCLASSIFIED

NATIONAL INSTITUTE OF HEALTH SCIENCES PROJECT

SCOPE OF WORK FOR PROJECT EVALUATION

1. THE PROJECT. The National Institute of Health Sciences (NIHS) Project (383-0062) was authorized in August 1980 for \$2,200,000 in grant funds over a three-year period. The purpose of AID assistance has been to expand certain physical facilities at NIHS. This assistance is in support of a multi-donor program of assistance to enable NIHS to increase the number of trainees and improve the quality of training health care workers required to support the GSL's primary health care system. Essentially, AID's assistance entails financing the construction of the buildings (including the equipment that is an integral part of the building such as lighting, wiring, etc.), utilities, site preparation, interior roads, design work and construction monitoring (ie. Architectural/Engineering Services).

Development of NIHS has been very slow over the last three years both with respect to its physical plant and to its role as a leading training/research institute. Problems which have hampered NIHS over the last three years include:

- insufficient staff
- rapid turnover of faculty for AMP program
- insufficient budget for operating expenses and training programs
- inconsistent policy guidance from MOH regarding types of training to be conducted
- insufficient staff and know how to organize and initiate research activities
- continuing lack of facilities including seminar and lecture halls, library, laboratories, and living quarters for faculty and students

Despite the slow progress cited above, NIHS has made progress in the following areas:

- the existing faculty, although small, is fairly well trained in their respective areas of expertise
- UNICEF-financed staff quarters have now been completed and additional quarters are nearing completion which among other things, should help reduce the rate of faculty turnover
- USAID-financed facilities, in design stage with construction to start early 1984, should be completed by

1985

-MOH has acted upon several recommendations (drawn from an in-depth evaluation by WHO in early 1982) to strengthen the role of NIHS with regard to training of paramedical personnel and development of health manpower in general. MOH has recently issued two national directives:

1. The first establishes a coordination committee charged with the task "of coordination with other institutions with regard to curriculum development, planning and management of health man-power development and research... (and) coordination of training and service institutions of the Ministry of Health."

2. The second directive established an advisory board of management within the MOH to direct the future development of NIHS with regard to, "teaching - training issues, research service, future expansion, developing linkages and relationships with other institutions including universities, assessment of NIHS performance, etc. It would also help NIHS to play effectively its role of coordinator of training in the country."

-The Director of Health Services, MOH is chairman of

both the coordination committee and the advisory board. The Director, NIHS is secretary and convenor of both bodies. The publication of these two directives has added to the prestige of NIHS and increased its potential influence on national training programs for all public health personnel.

While AID has been providing financing for architect and engineering services and the construction of facilities, other donor contributors (WHO, UNDP, and UNICEF) have supported technical assistance inputs needed for the institutional development of NIHS as a leading training/research institution. In view of anticipated budget reductions by these organizations, their support for future TA requirements is expected to decrease. To help fill this potential gap in assistance and continue our contribution to the improvement of the delivery of preventive health services at the village/community level, possible future AID assistance might include:

- long term training of faculty
- T.A. to help up-grade and improve curriculum content
- short-term training to improve teaching techniques
- assistance in developing a field research program and a system to feed research and evaluation results back

into training programs.

Before considering possible future assistance, however, the Mission wishes to complete a mid-project evaluation.

II. PURPOSE, TIMING, AND TEAM COMPOSITION OF THE EVALUATION.

In light of the program developments described above and the need to look ahead at future AID investments in NIHS' future growth, the Mission believes that mid-September would be an opportune time to begin a mid-project evaluation. The evaluation team will be composed of ^{five} ~~four~~ individuals (including two from the host-country government) working together for approximately ⁶ ~~3~~ weeks. The purposes of the evaluation are the following:

- A. To assess progress made to date toward achieving: project purpose (to expand physical facilities of NIHS in support of multi-donor program, and program purpose (to increase the capacity of NIHS to train the quantity and quality of health care workers required to improve services, and the extent to which these achievements are contributing or are likely to contribute toward reaching the program/project goal - to enhance human productivity and well-being in the rural sector by improving public health services (assemble existing evidence which demonstrates tangible achievements

of the program/project).

- B. To examine the implementation and administrative arrangements of this program/project and identify the prevailing strengths and weaknesses which facilitate and/or inhibit the accomplishment of program/project activities.
- C. To examine the original assumptions to see whether they remain valid, to what extent they have proven reliable, and the implications for this project/program if some of these assumptions are not reliable.
- D. To make recommendations for : (1) enhancing program/project effectiveness and therefore, strengthening the likelihood of achieving stated goals and purposes; and (2) AID's future role in the GSL's preventive health ^{C&K} ~~care~~ program.
- E. To provide useful information to the Mission (particularly on training of public health personnel) as it develops its health strategy for input into the CDSS.
- F. To identify potential indicators and methodologies that

could be used to monitor and evaluate project/program performance and effectiveness so that a data base can be developed for future measurement of beneficiary impact and for end of project evaluation in FY 1985.

III. CONTENT OF THE REPORT AND QUESTIONS IT WILL ANSWER. The evaluation team will produce a report tentatively entitled, "Evaluation of Sri Lanka's National Institute of Health Sciences (NIHS) Project." This report shall respond to each of the following questions, specifying indicators of progress and concrete evidence. The organization of the report will conform to the following outline:

i Preface (optional)

ii Table of Contents

iii Project Identification Data Sheet

I. Executive Summary (according to Asia Bureau format)

II. Major Conclusions and Recommendations (according to Asia Bureau format)

III. The National Institute of Health Sciences (NIHS) Project

Context

- A. Background and purpose of present project (including goals, purposes, and activities of AID project and the NIHS program as a whole; existing health problems/issues which project/program was designed to address; host government's and other donor interest, involvement and support of project), and
- B. Purpose and methodology of evaluation

IV. Program/Project Implementation and Level of Accomplishment

- A. The purpose of AID assistance is to support that part of the NIHS program involving the expansion of physical facilities at the NIHS program needed for training more public health workers and doing related research for all levels of the paramedical system. The purpose was to be accomplished by financing the construction of the buildings, utilities, site preparation, interior road, design work, and construction monitoring.
 1. What progress has AID made in achieving the project purpose? What is the status of financing the various

inputs? What if any outputs have resulted from this assistance? Assess existing and projected facilities. How has this level of progress affected the rest of the program (multi-donor effort)?

2. Discuss the implementation and administrative arrangements of this project. Discuss what has actually happened as compared to what was planned. What have been the strengths and weaknesses of these arrangements?

3. Are the original assumptions required for input, output, and purpose achievement still valid and reasonable? Discuss the degree to which they have been reliable. At this point, does it appear that although some assumptions may remain valid, some have proven to be unreliable? If some of these assumptions are not reliable, what are the implications for this project?

4. What plans have been made to transform or remove the obstacles preventing progress? What actions have been taken in this regard?

5. Do these plans and actions seem adequate? What recommendations does the team have for facilitating the process?

6. What are the new time projections for project completion? Are these reasonable?

7. What lessons can be learned from this project so far that could be applied to the design of future, similar or follow-on projects in Sri Lanka or elsewhere.

B. The purpose of the program (refers to the multi-donor GSL plan to develop NIHS of which AID's assistance is a part) is to increase the capacity of the NIHS to train the quantity and quality of health care workers required to support the GSL program in improving health delivery services and environmental sanitation. This purpose is to be accomplished by financing construction of physical facilities at Kalutara, staff training, and technical assistance for revision and installation of ^{the} curriculum. ✓

1. What is the status of financing the various inputs for this project? What outputs have resulted from this assistance?

-Assess revisions made in various curricula and course content. Do the revisions made address the current rural health needs? Will these revisions prepare health workers in delivering the kind of health services needed?

-Assess teaching methodology and balance between classroom, laboratory and clinical practices as it relates to producing well-trained health care workers. Are the trainees receiving the kind of training which will facilitate learning and application of their knowledge and skills in the field?

-Assess adequacy and utilization of teaching materials. Are they geared towards the level of complexity that the trainees are capable of understanding? Do they adequately cover the areas with which the trainees will be working (eg. preventive health care in rural areas)? Are the teaching materials utilized in the way they were intended?

-Assess construction efforts of other donors and the GSL.

2. What progress has been made in achieving the program purpose? Assess efficiency and effectiveness of student recruitment and their retention rate. What progress has been made in expanding the number of health workers trained (compare the annual figures)? What is the likelihood that the numbers projected in the PP will be reached? If there is an increase at this point, are the

majority of these trainees being trained for preventive rural work? What about the quality of their training? How is this being measured? Is there tangible evidence to show that their delivery of ^{public health services} ~~health care~~ has improved, especially preventive care? ^{think through} ~~Think through~~ the needs of the Institute once the pipeline of workers is filled and only replacements are needed. Suggest how faculty upgrading can change jobs from mostly teaching to teaching and research and the timing of this. ~~Assess existing field research activities.~~ ^{field} What kind of research efforts, if any, ^{is being done} ~~are going on?~~ If some are underway or planned, how ^{what is the field research effort on} ~~have they or how do they plan to help improve~~ the health delivery system? Assess existing and potential role of NIHS as a public health training institution. How have specific components of the program design or implementation contributed to or inhibited ^{the success of the project?} ~~the success of the project?~~ ^{the success of the project?} How can those factors limiting or inhibiting success be altered or eliminated from the program design or implementation strategies?

3. Discuss the ^t implementation and administrative arrangements of this program. Discuss what has actually happened as compared to what was planned. What have been the strengths and weaknesses of these arrangements?

4. Are the original assumptions required for input, output, and purpose achievement still valid and reasonable? Discuss the degree to which they have been reliable. At this point, does it appear that, although some assumptions may remain valid, some have proven to be unreliable: If these assumptions are not reliable, what are the implications for this project?

5. What plans have been made ^{and actions taken to overcome} ~~to transform or remove~~ the obstacles preventing progress? ~~What actions have been taken in this regard?~~

6. Do these plans and actions seem adequate? What recommendations does the team have for facilitating the process?

7. What are the new time projections for achieving the targets that have been designated? Are these reasonable?

8. What lessons can be learned from this program so far that can be applied to the design of future, similar or follow-on efforts in Sri Lanka or elsewhere?

9. Assess ^{findings and recommendations} previous evaluations of the program and the G-5L ^{inquire to the}

C. The goal of both the NIHS program and the AID project is to enhance productivity and human well-being through

expansion of primary health care for all people in Sri Lanka. According to the PP, measures of goal achievements are: reduction in major preventable illnesses and lowered malnutrition rates.

1. It is not the intention of this evaluation effort to actually assess "impact" of this program/project or to perform the impossible task of "proving" attribution. The team should, however, assess how and to what extent the achievements of the NIHS program and AID project appear to be contributing or are likely to contribute to the program project goal. Are the outputs well aligned with the health needs this program/project is attempting to address? In addition to assessing this in a theoretical sense, a very short survey could be taken on a small sample of graduates to determine what of their training and equipment is appropriate to the job and the health conditions of the population. Is preventable health education and facilities matched to the probable morbidities? Is nutrition training commensurate with the nutrition problems?

2. The assumptions listed for achieving goal targets relate to adequate funding, the willingness of graduates to work in rural communities throughout Sri Lanka and graduate acceptance by and ability to work effectively in rural

communities. Can these assumptions be counted on? How have they worked so far? Specifically, assess the adequacy of the NIHS budget for operations, training and research; assess the present and future role of Assistant Medical Practitioners and Family Health Workers in the provision of preventive health services; and identify the manpower constraints in clinical services at district and village/community level.

D. Colombo 03573 (June 1983) suggests a number of problems which have hampered the development of NIHS both with respect to its physical plant and to its role as a leading training/research institute. To further understand these problems and their future implications, the following questions should be addressed. Discuss any other problems uncovered during the evaluation.

1. What has been done about the insufficient number of staff? Why does this insufficiency exist? What is being done about it? If this is not to be changed soon, how will it affect the project program? What is being done to adjust? Any recommendations?

2. Now that UNICEF-financed staff quarters are completed, has this reduced faculty turnover. If not, why not? What

other reasons exist to bring on rapid turnover? What is being done to change the situation? Any recommendations?

.. 3. What is being done about the insufficient budget for operating expenses and training programs? Has it been increased? If not, where will more money come from? If there is no more money, how can the project/program adjust to the lower budget?

4. What policy guidance has MOH issued recently regarding types of training to be conducted? Has the guidance been consistent? What inconsistencies exist? If they do exist, what is being done to change the situation? To what degree is this affecting the program? Any recommendations?

5. Insufficient staff and know how to organize and initiate research activities was noted as a problem hampering NIHS progress. What is the staff size and research experience--discuss its evolution. What are the problems? What changes are needed? Are these feasible? What steps should be taken to ameliorate this situation?

6. Since AID-financed facilities will, according to recent projection, not be completed until 1985, what can be done now to work around this shortage of facilities so that NIHS

is still moving along in its development? How can this projected completion date be locked in to some extent? What are the foreseeable problems in the achievement of this goal? What measures can be taken now to facilitate the achievement of this goal?

- E. Colombo 03573 notes several areas in which progress has been made. Does the evaluation team have any comments on the progress cited? Discuss implications for the project/program. Are there any other areas where progress has been made?
- F. To strengthen the role of NIHS with regard to training of paramedical personnel and development of health manpower, in general, MOH has recently issued two national directives. What has been the outcome of these directives and how has it affected the project/program? What are the anticipated effects? Does it appear that these directives will strengthen NIHS' role as intended? What about unintended effects? The team should spend sufficient time with the MOH directive appointed coordinating committee to understand in detail what they see as the role of NIHS, its needs for staff, staff training, curriculum development, manpower development, and research. The team should then recommend how the coordinating committee can

be assisted and its role be improved. The team should also work with the advisory board of management within MOH to understand what it will do to direct the future development of NIHS and to learn what it will need to carry out this task. The team should recommend to AID what AID might do to help the board and the institute achieve the objectives.

G. What are the teams recommendations for improving program effectiveness and efficiency and therefore strengthening the likelihood of achieving the stated goals and purposes.

V. AID's Future Role in NIHS. Colombo 03573 suggests several areas of T.A. to consider for future funding. Assess the needs for this type of assistance. Is this reasonable? What reservations does the team have? What other areas of future assistance would be worthwhile? What other gaps exist which AID could reasonably fill.

VI. Monitoring and Evaluation of Performance and Impact. According to Colombo 03573, the Mission views this evaluation effort as an opportunity to develop a data base for the measurement of beneficiary impact and for end of project evaluation in FY 85. The actual development of such a data base is a major task requiring for more time than is

available for this evaluation effort. Nevertheless, the team should make a preliminary list of potential indicators, ^{and} ^{methodologies} ~~methodologies~~ that could be useful for guiding the development of a monitoring and evaluating approach. This should also include:

- Recommendations for establishing benchmarks to assess utilization of trainees following completion of their training.
- Recommendations for techniques of tracking trainees and follow-up surveys for the trainees, and other public health personnel for comparison purposes.
- Recommendations for the development of plans for managing and conducting the evaluation.

WATER AND SANITATION FOR HEALTH (WASH) PROJECT
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 156
Amendment NO. 1
3 April 1984

TO: Dr. Dennis Warner, Ph.D., P.E.
WASH Contract Project Director

FROM: Mr. Victor W.R. Wehman Jr., P.E., R.S. *VWR*
AID WASH Project Manager
AID/S&T/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project
Scope of Work for USAID/Sri Lanka for the Public
Health Evaluation

REFERENCES: A) OTD # 156, dated 30 Aug 1983

1. Para 2 to subject OTD # 156 (Ref A) is cancelled. New para 2 to subject OTD # 156 (Ref A) is now to read as follows:

"2. WASH contractor/subcontractor/consultants authorized to expend up to 42 person days of effort over an eight (8) month period to accomplish this technical assistance effort."

2. No further amendments to this OTD will be issued.

3. Nothing follows.

Camp Dresser & McKee Inc.
WASH PROJECT

APR 3 1984

OTD # 169 - October 21, 1983

Participation in International Workshop on Measuring the Health
Impacts of Water Supply and Sanitation Projects,
November 21-25, 1983 Dhaka - Bangladesh

The Office of Health authorized WASH participation in the International Workshop on Measuring the Health Impacts of Water Supply and Sanitation Projects. The workshop was organized by the International Centre for Diarrhael Disease Research, Bangladesh, and the London School of Hygiene and Tropical Medicine, and will have some thirty invited participants plus observers. Dr. Raymond B. Isely, Associate Director for Health and Social Sciences of WASH will present a paper entitled "Opportunities, Problems and Pitfalls in Using Health Status Measures to Evaluate Water Supply and Sanitation Projects in Togo, Malawi and Tunisia."

For further information, contact Dr. R. Isely.

Up to eleven person days of effort, seven days of international/domestic per diem and international air travel in conjunction with OTD 156 are authorized. Local travel in Bangladesh is also authorized.

JEB/CIC
10/25/83

WATER AND SANITATION FOR HEALTH (WASH) PROJECT
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 169
21 October 1983

TO: Dr. Dennis Warner, Ph.D., P.E.
WASH Contract Project Director

FROM: Mr. Victor W.R. Wehman Jr., P.E., R.S. *VWW*
AID WASH Project Manager
AID/S&T/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of Work
for S&T/H for Attendance at Health Impact Evaluation Workshop
for Water Supply and Sanitation Projects in Bangladesh

REFERENCES: A) Announcement---International Workshop on Measuring the Health
Impacts of Water Supply and Sanitation, Nov 21-25, 1983
B) Letter of invitation Rahaman and Feachem to Isely, dated 30 Sept 83
C) Letter--Aziz to Isely, dated 10 Oct 83

1. WASH contractor requested to provide technical assistance to S&T/H by attending, participating in and observing various activities related to an international workshop involving health impact evaluation methodologies related to water supply and sanitation projects. Brochure attached as Ref A. Contractor's representative to brief S&T/H and others if requested by S&T/H regarding workshop content, workshop materials, etc. Contractor's representative to bring back three sets of workshop materials if at all possible.

2. WASH contractor/subcontractor/consultants authorized to expend up to 11 person days of effort over a two (2) month period to accomplish this technical assistance effort.

3. Contractor authorized to expend up to 7 person days of international/domestic per diem to accomplish this effort.

4. Contractor to coordinate with workshop sponsors, USAID/Bangladesh, ASIA/TR/HNP (D. Oot), ASIA/PD/ENG (Hasan Hasan), AID/Bangladesh Desk Officer and should provide copies of this OTD along with periodic progress reports as requested by ASIA Bureau or S&T/H staff.

5. Contractor authorized to provide up to one (1) international trip from Sri Lanka to Dhaka, Bangladesh to Washington D.C. during life of this OTD. This travel is in conjunction with international travel authorized under T-156.

6. Contractor authorized local travel in Sri Lanka as necessary and appropriate to accomplish technical assistance effort. This includes chartered aircraft transport from Dhaka to Cox's Bazaar and return to Dhaka to participate with workshop participants.

7. Contractor authorized to provide for car rental in Bangladesh as necessary to accomplish mission.

8. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract.

9. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.

10. New procedures regarding subcontractor selection/justification and consultant selection/justification remain in effect. Cost estimates for subcontractors must be approved by S&T/H/WS Project Manager.

11. Contractor to provide no formal reports to USAID/Bangladesh or S&T/H unless debriefings requested by those staff members.

12. USAID/Bangladesh and individuals identified in para 4 above should be contacted immediately and technical assistance initiated as soon as convenient to workshop sponsors and USAID/Bangladesh. Please make sure that contractor's representative has USAID/Bangladesh cable or verbal clearance for participation in workshop and country clearance before entering country.

13. Appreciate your prompt attention to this matter. Good luck.

ANNOUNCEMENT

International Workshop on Measuring
the Health Impacts of Water Supply
and Sanitation. November 21-25 1983

- TITLE OF THE WORKSHOP : International Workshop on Measuring the Health Impacts of Water Supply and Sanitation.
- OBJECTIVES : (1) To recommend appropriate indicators for evaluating the impact of water and sanitation projects on health;
- (2) To recommend appropriate epidemiological methods for measuring the health impacts of water and sanitation programmes;
- (3) To determine the feasibility and value of measuring changes in health-related behaviour as well as, or instead of, measuring changes in infection or disease;
- (4) To recommend ways to encourage collaboration between social scientists and epidemiologists in health impact research.
- DIRECTORS OF WORKSHOP : Dr. M. M. Rahaman, International Centre for Diarrhoeal Disease Research, Bangladesh;
- Dr. R. G. Feachem, London School of Hygiene and Tropical Medicine.
- DATES : November 21 - 25, 1983.
- PARTICIPANTS : Epidemiologists, social scientists and others working in the field of water and sanitation and their health impacts.
- NUMBER OF PARTICIPANTS : 20. A limited number of observers will be allowed.
- LANGUAGE : English.
- VENUE : Bangladesh.
- ACCOMMODATION : Food and lodging will be arranged by ICDDR,B.
- TRANSPORT : ICDDR,B will be responsible for all transport within Bangladesh.
- COSTS : No registration fee is to be charged. Efforts will be made to obtain sponsorship for invited participants from developing countries.

- RECRUITMENT OF PARTICIPANTS : Experts in this field will be individually invited and selected international agencies will be invited to nominate observers. Priority will be given to researchers actively engaged in health-impact studies in developing countries.
- DOCUMENTS : A single document will be produced following the workshop which will briefly summarize the individual presentations of the participants but concentrate on addressing the four issues listed above under objectives.
- ADMINISTRATION : International Centre for Diarrhoeal Disease Research, Bangladesh.
- All correspondence and enquiries should be addressed to:
- Conference Office (Health Impact Workshop)
International Centre for Diarrhoeal Disease
Research, Bangladesh
GOP Box 128
Dhaka 2
Bangladesh
- Telex: 65612 ICDD BJ
Telephone: Dhaka 600171/2/3/4/5



London School of Hygiene and Tropical Medicine

Keppel Street (Gower Street) London WC1E 7HT

Telephone 01-636 8636

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Dr Raymond Isely
Water and Sanitation for Health Project
United States Agency for International Development
1611 N Kent Street, Room 1002
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USA

30 September 1983

Dear Dr Isely

International Workshop on Measuring the Health Impact of Water Supply and Sanitation Projects

We are very pleased that you will definitely be attending the above named Workshop. We attach a list of all participants and their paper titles for your information. Please check carefully your own name, address and paper title and let us know immediately if there are any errors.

On all matters regarding the Workshop you should communicate with the Conference Office at ICDDR,B. This office will be contacting you regarding travel arrangements and other administrative matters.

The Workshop will be held in Coxes Bazaar. Participants should arrive in Coxes Bazaar on Sunday, November 20, in order that the Workshop may start promptly on Monday, November 21. ICDDR,B are arranging a charter flight from Dhaka to Coxes Bazaar on Sunday 20th. It will be assumed that you require a seat on this flight. It is necessary for you to arrive in Dhaka on Saturday November 19 at the latest. Those people travelling from South America, North America, Europe and West Africa may consider taking the BA flight from London to Dhaka that leaves London late on Thursday 17 and on Friday 18. When you know your arrival date in Dhaka, please inform the Conference Office at ICDDR,B who will arrange the necessary accommodation in Dhaka.

The Workshop will run for 5 days; Monday 21 - Friday 25 November. On Saturday 26 there will be a one day visit to the Teknaf field station of ICDDR,B, for those who wish to visit Teknaf. If you do not visit Teknaf you can either stay in Coxes Bazaar on Saturday 26 and return to Dhaka on Sunday 27, or you can return to Dhaka on Saturday 26. If you do go to Teknaf, you will be taken back to Dhaka on Sunday 27. Please let the Conference Office know your preferences.

You should enquire about visa formalities at your local Bangladeshi embassy or consulate. Those coming from yellow fever areas will need a current vaccination certificate. Cholera vaccination is optional, but this is the peak cholera season in Bangladesh.

The weather will be dry and warm. We are meeting near the beach and swimming will be the main recreation.

Please do not forget that your paper is required by the Conference Office at ICDDR,B for pre-distribution to all participants. If you have not dispatched it, please do so as soon as possible.

We look forward to meeting you at Coxes Bazaar.

Yours sincerely

A handwritten signature in black ink, appearing to read "Richard G. Feachem". The signature is written in a cursive style with a long horizontal flourish extending to the right.

M.Mujibur Rahaman and Richard G.Feachem

cc Drs K M S Aziz and W B Greenough



CIC #98

May 1, 1981

Assistance in Preparation of Asia Bureau
Policy Paper on Water Supply and Sanitation

In preparation for an upcoming Asia Regional Health Officer's Conference, the Asia Bureau has asked WASH to prepare recommendations for the outline of a revised Asia Bureau Water and Sanitation Policy Paper. As background for these recommendations, a consultant spent 14 person-days reviewing and analyzing documents related to five (5) water and sanitation projects in the Region. From this analysis draft a commentary on the projects and draft recommendations have been prepared. The task manager for this CIC is Ray Isely.

RBI/CIC/5-26-81



February 1980

Drafting of Scope of Work for Assistance
in Preparation of National Water Decade
Plan (APHA) - Sri Lanka

In February 1980 USAID/Colombo requested from APHA the expert services of an individual well versed in national planning of drinking water and sanitation programs to identify the number and disciplines needed to formulate a detailed Decade water supply and sanitation plan for the country including annual investment programs.

The assignment resulted in a report Scope of Work for Assistance in Preparation of a Comprehensive Plan for the International Decade for Drinking Water and Sanitation in Sri Lanka, dated March 1980, based on an assessment of the requirements in Sri Lanka carried out between February 28 and March 18, 1980. The report recommended a seven man team for a total of 40 person weeks to assist the Government of Sri Lanka in developing the Decade Plan.

JEB/WASH/CIC
5/27/81



March 1980

Preparation of National Water Decade Plan
(APHA) - Sri Lanka

The principal objective of this task for the APHA was to assist Sri Lanka in developing a detailed Decade of Drinking Water Supply and Sanitation Plan for the country: reviewing a draft plan and preparations made by the GSL and preparing a report containing expanded descriptive and analytical material in sufficient detail to constitute a comprehensive Decade Plan. The Plan is to include:

1. Definition of the overall problems.
2. Statement of the GSL policy.
3. Definition of Decade Plan goals, objectives and priorities.
4. Socio-economic analysis.
5. Selection criteria.
6. Statement of strategy
 - a) determination of input requirements
 - b) technology selection including development of in-country manufacture of equipment required for the Plan
 - c) methods of approach
 - d) institutional framework
 - e) resource analysis
 - f) constraints analysis
7. Two year investment projections.
8. Projection of levels of activity and financing required for subsequent years to achieve Decade goal.

The Executive Summary of the National Plan was presented by Sri Lankan officials to the United Nations in New York on November 10, 1980 during the official launching of the International Drinking Water Supply and Sanitation Decade.

This task was accomplished by an eight man team who expended 359 person days at a cost of \$163,000.

JEB/WASH/CIC
5/27/81



November 1980

Development of Strategy and Guidelines
for Rural Water Supply and Sanitation
(APHA) - Thailand

The objectives of the assignment to the APHA were:

1. Assessment of AID experience in the water supply and sanitation in the poorer villages with populations of less than 1000 in the 20 provinces included in the Primary Health Care Project in Thailand.
2. Assessment of the basic levels of social and economic development affected by improvements in water supply and sanitation.
3. Development of a rural water supply and sanitation strategy by identifying positive changes effected in the past and by making recommendations for future programs in those fields.
4. Identification of targets of opportunity for projects that can be considered for funding with special emphasis on USAID participation in the International Drinking Water Supply and Sanitation Decade.

The assignment was carried out with full cooperation of USAID/Thailand and involved (a) meetings with representatives of Thailand as well as international agencies; (b) survey visits to 40 villages accompanied by Thai counterparts; and (c) preparation of a report: Strategy and Guidelines for Developments in Sanitation and Water Supply in Selected Areas in Thailand (January 1980).

This assignment used eighty-two person days and cost \$22,900. Continuing work on this subject is being carried out by WASH under OTD #38: Further Development of Rural Water and Sanitation Project.

JEB/WASH/CIC
5/27/81



August 29, 1979

Technical Assistance for Local Manufacture,
Installation, Operation and Maintenance of
AID Handpumps - Indonesia (Georgia Tech Contract)

The purpose of this contract is to supply technical advice and assistance to the AID mission, host government, and private volunteer organizations (PVOs) in implementing rural water supply programs associated with local manufacture of AID handpumps, well site selection and development, handpump installation, handpump operation and maintenance and related training.

The program of work will involve the contractor in the field testing of 60 AID handpumps previously manufactured in Indonesia to determine and improve the level of quality of the handpumps prior to their widespread distribution throughout the country. This will involve site selection, preparation of wells, installation of pumps, disinfection of wellwaters, monitoring of pump performance, analysis of performance data, maintenance and repair of pumps over the life of the monitoring period, training of rural villages, government representatives and sanitarians in installation and maintenance procedures, and, where pump defects are found, providing technical assistance to the pump manufacturer until the defects are corrected.

The contract work will also include the local manufacture of an additional 170 deep and shallow well handpumps. These pumps, with associated training, will be installed in each of six USAID Provincial Area Development Program (PDP) project areas. AID handpumps will also be supplied and installed at eleven sites in sanitation schools as training aids.

The contractor will also provide site selection, site development and installation of 10 deep-well handpumps in the Jakarta area of Indonesia for a World Health Organization (WHO)/Ministry of Health (MOH) independent monitoring program which will facilitate acceptance of AID handpumps for use by the Government of Indonesia (GOI).

This contract between AID/Indonesia and Georgia Tech runs from August 29, 1979 to August 29, 1981, at an estimated cost of \$358,000.

JEB/WASH/CIC
5/28/81

