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**RURAL WATER SUPPLY AND
SANITATION PROJECT
(PROJECT NO. 492-0401)**

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492-0401
1991
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**PROJECT ASSISTANCE COMPLETION REPORT
(PACR)**

MARCH 31, 1991

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RURAL WATER SUPPLY AND SANITATION PROJECT
PROJECT NO. 492-0401

PROJECT ASSISTANCE COMPLETION REPORT

TABLE OF CONTENTS

| | <u>Page</u> |
|--|-------------|
| I. DESCRIPTION OF THE PROJECT | |
| A. Background | 1 |
| B. Project Goal and Purpose | 2 |
| C. Amended Project Description and Financial Plan | 3 |
| D. Implementation Plan and Administrative Arrangements | 4 |
| II. CURRENT STATUS OF THE PROJECT | |
| A. Project Management Consultant | 4 |
| B. Financial and Socio-Economic Study | 6 |
| C. DLG Institutional Development | 7 |
| III. SUMMARY OF FUND DISBURSEMENTS | 8 |
| IV. ASSESSMENT OF PROJECT ACCOMPLISHMENTS | 8 |
| V. POST-PROJECT MONITORING ACTIVITIES | 9 |
| VI. PROJECT EVALUATION | 9 |
| VII. PROJECT CLOSE-OUT ACTIVITIES | 9 |
| VIII. ATTACHMENTS | |
| A - Rationale for Partial Termination of RWSSP | |
| B - List of PMC Professional Staff | |
| C - Training Module Status | |
| D - Manuals and Technical Papers | |
| E - List of Project Commodities | |
| F - Training Activity Summary | |

I. DESCRIPTION OF THE PROJECT

A. Background

In 1977 the Government of the Philippines (GOP) and the United States Agency for International Development (USAID) agreed on the broad outline of a program to increase the proportion of the rural population having access to safe water supply and adequate sanitation. The basic strategy of this program was to develop a capacity at the national and local government level to plan, design and implement small scale water systems to be owned and managed by cooperatives of users at the barangay level. The program was divided into four phases, of which the Rural Water Supply and Sanitation Project (RWSSP) was the fourth phase. The four phases are described below.

Phase 1 Pilot Effort (1977): The purpose was to develop an institutional structure and operational procedures and to establish the core staff necessary for the program. The pilot effort was to test the structure with a limited number of systems. The cost of this phase was borne by the GOP.

Phase 2 BWP I (1978-1980): The purpose of Barangay Water Project (BWP I) was to refine the pilot effort structure and expand the number of systems to be constructed in provinces and cities already participating in the USAID-supported Provincial Development Assistance Program (PDAP) and the Rural Service Center (RSC) Projects. The cost of this phase was shared equally by USAID and the GOP. USAID obligated \$1.142 million in grant funds and \$6.0 million in loan funds for this phase.

Phase 3 BWP II (1980-1987): The purpose was to expand the coverage of the program to provinces and cities which had not participated in the PDAP and RSC programs, to strengthen the institutionalization of the system, and to develop local government units strong enough to attract additional project financing from donors such as the IBRD, Japanese International Cooperation Agency (JICA) and ADB. USAID originally obligated \$22.137 million in support of this phase of the program, but because of slow implementation \$5.5 million was deobligated and the project was extended to December 1987. During this phase, 390 hand pump facilities and 204 water systems were constructed, with disbursements totalling \$16.009 million.

Phase 4 RWSSP (1986-1990): The RWSSP was a continuation of USAID support for the water supply and sanitation program of the GOP. The design of RWSSP was based on a 1985 USAID evaluation of the Barangay Water II project. The major recommendations of the evaluation included: 1) stronger emphasis on institutional development; 2) a focused approach on a limited number of local government units (LGUs) and provisions for qualification and graduation of LGUs from the program; 3) the need for a sanitation education awareness program and performance-oriented training; 4) the introduction of improved administrative and financial management structures and practices.

B. RWSS Project Goal and Purpose

A Grant Agreement for the 4-year Project was signed on September 17, 1986 for a total cost of \$25 million; \$18.75 million in USAID grant funds and \$6.25 million in equivalent counterpart funding. The goal of the Project was to assist the GOP in achieving its objective of decentralizing the delivery of public services through the building of the technical and managerial capabilities of local government units (LGUs). The purpose was to develop an institutional framework and methodology for the development and enhancement of LGU capabilities to plan, finance, and construct self-sustaining water supply systems and related sanitary and health improvements for rural communities. The implementing agency was the Department of Local Government (DLG).

The project was originally planned to have four major project components: 1) institution building; 2) community development; 3) water system construction; and 4) health and sanitation. Also, a financial and socio-economic study was to be conducted to set the financial parameters for the Project. However, only the institution building component and the financial and socio-economic study were undertaken as a result of a partial termination of the Project.

The Project was partially terminated on June 22, 1989 for two principal reasons: 1) a change in responsibilities among GOP agencies involved in the water supply and sanitation sector, and 2) the lack of progress on project implementation. These reasons are fully described in Attachment A, Rationale for Partial Termination of RWSSP, but the critical factor was that the changes in GOP agency responsibilities removed the Project implementing agency, the DLG, as an implementing institution for water projects.

4

DLG became charged principally with the responsibility for providing technical assistance and training related to the development of rural water systems. Thus, this change eliminated the water system construction, and the health and sanitation and the community development components of the Project. Only the institution building component remained. This resulted in a reduction of \$20,555,800 from the original Project budget for a revised total of \$4,444,200: \$3,244,200 in USAID grant funding and \$1,200,000 in equivalent counterpart funding. The reduction was formalized in a Project Agreement Amendment dated July 24, 1990. The amended Agreement included a revised Project Description and Financial Plan as summarized below. The Project was concluded, as scheduled, on the Project Assistance Completion Date (PACD) of September 30, 1990.

C. Amended RWSS Project Description and Financial Plan -

The Project goal and purpose remained the same under the amended Project. However, the only component of the Project which remained was that of DLG institutional development. This included technical support and training for the conversion of the role and function of a DLG Project Management Office (PMO) from one of project administration into a technical assistance and training organization which would function as a trainer of trainers. The strategy of the revised Project, consistent with the mandate of DLG to strengthen the operations of LGUs, was to provide technical assistance to the PMO to develop the teaching methodology and instructional materials for the PMO to function as a trainer of LGU trainers. The LGUs in turn would transfer technical skills for water supply and sanitation system development and construction to local communities and water user associations. The Project included pilot water supply system repair and construction activities to field test the training materials and operational procedures.

The financial plan for the revised project is shown below.

| <u>RWSS Project Financial Plan</u> | | | | |
|------------------------------------|--------------|------------|-------------|--------------|
| (\$000s) | | | | |
| <u>Element</u> | <u>USAID</u> | <u>DLG</u> | <u>LGUs</u> | <u>Total</u> |
| T. A. and Training | \$2,945.7 | \$ 50 | \$ 10 | \$3,005.7 |
| Studies | \$ 298.5 | -- | -- | \$ - 298.5 |
| Capital Costs | -- | \$ 500 | -- | -- |
| Project Mngm't. Support | -- | \$ 500 | \$140 | \$ 640 |
| TOTAL | \$3,244.2 | \$1,050 | \$150 | \$4,444.2 |

D. Administrative Arrangements and Implementation Plan

The RWSSP employed the administrative arrangements used for the Barangay Water Program, with the DLG serving as the implementing agency. Within the DLG, a Project Management Office (PMO) was created to manage the operations of the Project. USAID funds were allotted for the financial and socio-economic study to set the financial parameters for the Project, and for contracting the required technical assistance (Project Management Consultant - PMC).

The Project implementation plan called for the PMC to upgrade the skills needed by the PMO to provide technical assistance to LGUs in community organization and Rural Water Supply Association (RWSA) formation, and to train and assist Project Development teams at the LGUs in community organization for water supply and sanitation programs. The planned areas for PMC assistance included:

1. Developing an overall staffing plan for the PMO;
2. Implementing required changes in the staffing pattern or organization of the PMO;
3. Implementing modifications in the fiscal and administrative procedures of the PMO;
4. Development of training materials, providing training and testing training procedures under the program.
5. Development of standards for LGU and RWSA participation in the program;
6. Evaluation of LGU admission and graduation from the program; and
7. Preparing annual work plans and budgets of the PMO.

II. STATUS OF THE PROJECT

A. Project Management Consultant (PMC) Support

Engineering Science, Inc. (ESI), a U.S. based consultant firm, in association with the local firms of Carolmind Management and Industrial Corporation, and Basic Technology and Management Corporation, provided the project management consultant (PMC) services for the Project. ESI was contracted by the DLG under a USAID-funded host-country

contract. The firm provided a total of 636 man-months of professional services over a 20-month period from January 30, 1989 through the Project PACD of September 30, 1990. A total of 27 professional expatriate and local ESI contract personnel served the Project. Attachment B contains a list of the professional staff. ESI's contributions to the Project were as follows:

1. Developed a computerized project management information system;
2. Trained approximately 300 PMO, Regional and LGU personnel in the various aspects of water system development;
3. Initiated and/or completed 103 training modules for future use of PMO personnel (Attachment C summarizes the status of Training Modules);
4. Developed 26 training manuals and technical papers (Attachment D contains a List of Manuals and Technical Papers);
5. Prepared detailed staffing plans for the PMO, LGU and Rural Water and Sanitation Associations (RWSAs);
6. Served as procurement agent for the PMO for the procurement of required PMO office furniture/equipment and training tools and equipment (Attachment E contains a List of Equipment and Furniture).

Training provided by the PMC was the major thrust for institution building under the Project. The training approach used was a two-step skills transfer process whereby the PMC provided technical support and training to PMO staff who subsequently functioned as trainers, transferring their skills to LGU personnel. Most of the PMO training activities focused on training techniques, training materials development, program management and community organization and community development methods as these were the areas of greatest need. A summary of the training activities carried out during the course of the Project is contained in Attachment F, Summary of Training Activities.

The PMC procured commodities to fulfill the needs of the project. These commodities were procured to support the start-up and continuation of the DLG program beyond the PACD. The bulk of the commodities consisted of office and training equipment such as computers, photocopiers, still and video cameras and TV monitors. Some major items originally planned to be procured were not procured as a result

of the partial termination of the Project. These items, which were to be provided to participating LGUs, included vehicles, repair vans, water testing kits and 22 microcomputers.

B. Financial and Socio-Economic Study

During the development of the RWSS Project in 1985, a WASH Project Development Team suggested that a series of data collection and surveys were needed to finalize the Project design. However, because of the downfall of the Marcos administration in February 1986 and the resulting hiatus in government planning, these surveys were not performed. As a result, a Financial and Socio-Economic Study was included as an element of the Project to establish the terms of project implementation.

The study was to establish guidelines for setting RWSA water user fees and to choose the barangays which would participate in the Project. Specific outputs of the study were to include: 1) assessment of the capacity of users to pay for water service; 2) identification of the willingness of users to pay for water service and steps to take to enhance willingness to pay; 3) development of a mechanism to estimate the proportion of households that may join RWSAs; 4) development of a mechanism to estimate the consumption of water per household for various water rates; 5) estimation of operating and maintenance costs necessary to achieve a useful economic life of water systems; 6) estimation of the life of water system components and water fees that should be set aside by LGUs to finance repairs; 7) establishment of an appropriate grant/loan mix to RWSAs for system development; and 8) selection of barangays for system construction activities.

A direct USAID-funded contract to perform the study was awarded to Comprehensive Marketing Systems, Inc. (CMSI), a U.S. Gray Amendment firm based in Washington, D.C. The study was started in June 1987 and a final report was completed in February 1988. The report was evaluated by ESI as part of their scope of work, and the report was found to be quite unsatisfactory. The major comments are listed below.

1. Selection Criteria: Although several selection criteria for LGU and barangay participation were identified, the study did not present any practical method for their quantification or application.

2. Capacity to Pay: The CMSI study lacked discussion on the results of the survey of the capacity of rural barangays to pay for water services.

3. Willingness to Pay: The low reported values of regression coefficients cast considerable doubt on the underlying soundness or usefulness of the methods employed to quantify willingness to pay by potential consumers. Although steps to enhance willingness of consumers to pay were identified, there was no detailed discussion on how these measures could be implemented.

4. Useful Economic Life and Replacement Fees: The estimates for the useful economic life of equipment were considered reasonable. However, the need for some equipment, notably the ditching machine, the positive displacement pump and power conditioner, was considered questionable.

5. Appropriate Subsidy Levels and User Fee Guidelines: No guidelines for setting user fees were provided. The choice of a market interest rate for the loan component of a subproject's cost was discussed but no definitive conclusion was reached.

Based on its review of this study, ESI promulgated a series of recommendations relating to project financing strategies and community organization/community development implementation procedures. These recommendations are discussed in detail in Section 3 of ESI's Main Report, dated September 1990.

C. DLG Institutional Development

To institutionalize DLG's role in the water supply sector, DLG is currently in the process of converting the RWSSP/PMO into a permanent program management unit to be located within the Office of Program Development Services. This institutional arrangement will be a major step towards the development of a long-term "program" oriented strategy as opposed to the short-term individual "project" approach that was a root cause of the lack of continuity and sustainability in the rural water supply sector. The DLG's PMO capability as a technical and training organization was principally developed under the project through reorganization, recommendations and training provided by the Consultants. DLG PMO staff were trained in the different aspects and methodologies of community development through the creation and field testing of curriculum and detailed instructional procedures for planning, financing, construction and operation of water systems.

The PMO now has the responsibility to develop supplementary water supply programs funded by other foreign donors such as JICA, World Bank and DANICA. In addition, it is also tasked to coordinate with other national government agencies implementing water supply projects such as Local Water Utilities Administration (LWUA) and Department of Public Works and Highways (DPWH). As mandated by National Economic and Development Authority (NEDA), DLG, through the RWSSP/PMO, is providing technical assistance to these agencies in the areas of community development, organization and training.

III. SUMMARY OF FINANCIAL CONTRIBUTIONS

The Project disbursements as of March 31, 1991 is as follows:

Level of Disbursements (\$000)

| <u>Project Element</u> | <u>Committed</u> | <u>Disbursed</u> | <u>Unliquidated Amount</u> |
|-----------------------------------|------------------|------------------|----------------------------|
| TA and Training (ESI Contract) | \$2,945.7 | \$2,422.5 | \$ 523.3* |
| Studies (CMSI Contract) | <u>291.6</u> | <u>291.0</u> | <u>.6**</u> |
| Total | <u>\$3,237.3</u> | <u>\$2,713.5</u> | <u>\$ 523.9</u> |

* The final voucher of ESI, in the amount of \$279,773.57, is now at OFM undergoing processing. With the final disbursement, the balance of about \$240,000 will be deobligated.

** CMSI's final payment claim amounting to \$633.56 is on hold at OFM pending submission by CMSI of its 1987 and 1988 approved and certified overhead rates.

IV. ASSESSMENT OF PROJECT ACCOMPLISHMENTS

The Project made substantial progress towards developing an international framework and methodology for the development and enhancement of the capability of LGUs to plan, finance, and construct self-sustaining water supply systems. The institutional support structure represented by the RWSSP/PMO is now permanently in place within the DLG, which is the national government agency designated by NEDA to be the lead agency in institutional development activities for the rural water supply sector. The 103 person RWSSP/PMO is staffed with well trained and technically equipped personnel. A total of 103 training modules covering the various phases of community organization and training and system construction, operation and maintenance were developed during the life of the project.

The PMO staff gained considerable theoretical and practical skills in the process of developing and field testing of these materials. The field testing of materials and training reinforced classroom learning with hands-on training which operationalized classroom theories, principles and concepts in actual field conditions. The PMO is in a position to provide technical support and training to LGUs and water users associations in water systems development.

V. POST PROJECT MONITORING ACTIVITIES

No post-project monitoring activities are programmed under the Project. It should be noted, however, that the UNDP has programmed about \$300,000 for continued support of the institutional development activities of PMO.

VI. PROJECT EVALUATIONS

The Project Paper envisioned the conduct of 3 formal evaluations during the life of the Project. These included initial, mid-project and end-of-project evaluations. None of these were performed.

The initial and mid-project evaluations were continually postponed due to the lack of Project progress. Eventually however, the Mission conducted an informal in-house evaluation of the Project design in the light of NEDA's policy decision to limit DLG's participation in rural water supply programs to institution-building activities. This resulted in the major re-design and partial termination of the Project, by which time the Project had only one year left for implementation. (In fact, the Grant Agreement Amendment which formally re-designed the Project was not concluded until July, 1990, just before the PACD of September 30, 1990.)

Due to the assessment and review work undertaken to formalize the Amendment to the Project, the Project was closed-out without a formal evaluation. The technical assistance provided under the Project towards institution building was considered to have gone as far as possible within the time limitations. No further USAID assistance was or is planned in the water supply sector.

VII. PROJECT CLOSE-OUT ACTIVITIES

- A. Active AID-Financed Contracts. Both the ESI and CMSI contracts remain to be closed. ESI's final payment voucher is undergoing review and processing at OFM while, in the case of CMSI, their final payment claim amounting to \$633.56 is on hold pending submission of additional supporting documents.
- B. Deobligation of Excess Funds. Deobligation of excess funds will be completed as soon as all AID-financed contracts have been closed.

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RATIONALE FOR PARTIAL TERMINATION OF RWSS PROJECT

On June 22, 1989, USAID gave notice to the DLG of its intention to terminate the project in accordance with Section D.1 of Annex 2 of the Project Agreement. The basis for this action was the change in responsibilities among agencies of the national government involved in the water supply and sanitation sector and the continued lack of progress in project implementation. These are further described below.

a. Rationalization of the Water Supply Sector

The rationalization of the water supply and sanitation sector, including the removal from DLG of its infrastructure building function, was anticipated. The project designers, a four-person expatriate team, were aware that NEDA was conducting a review of the structure of the government organizations operating in the sector. The objectives of the review were to eliminate duplication of functions among government agencies and to standardize the terms of the financial assistance granted to their respective program beneficiaries.

The NEDA review began in early 1986 but remained unfinished at the time the Project Paper and Agreement were signed in September 1986. Because the Project's approval could not be further delayed, the Project Paper and Project Agreement were finalized with the understanding that the Project's design might have to be modified should the results of the sector review warrant it.

Finally in March 1989, NEDA completed its study. Through Board Resolution No. 54 (1989), NEDA laid down the specific functions and areas of jurisdiction of each of the agencies working in the sector. The resolution placed the primary responsibility for constructing water systems in rural areas with the Local Water Utilities Administration (LWUA) and the Department of Public Works and Highways (DPWH). The DLG's function was limited to community organization, training and other related institutional development activities.

b. Lack of Progress in Project Implementation

In June 1989, thirty-three months after the Project Agreement was signed and only 15 months before the September 30, 1990 Project Assistance Completion Date (PACD), only \$266,133 of the \$13 million obligated for the Project had been disbursed. In addition, two Condition Precedents (CPs), including (1) the submission of implementation plan for AID approval, and (2) the submission of standard construction contracts, were not met despite a 22-month extension of the terminal dates for meeting these CPs.

Shortly after the notice to fully terminate the project was sent by USAID to the GOP, letters from both DLG Secretary Luis Santos and Acting NEDA Director General Filologo Pante asked USAID to reconsider the termination action. Both letters emphasized that the realignment of GOP responsibilities still left an important role for DLG - that of developing the institutional capacity of local government units to build water supply systems. DLG stressed that this role was consistent with the original objective of the Project "to develop an institutional framework and methodology for the development and enhancement of LGU capabilities to plan, finance and construct self-sustaining water systems for rural communities". Citing this reason, DLG requested for a partial, not complete, termination of the Project. After a through review of the request, USAID reconsidered and approved a partial termination.

Partial termination meant the elimination of the water system construction and the health and sanitation components of the Project. Only the institution building component was to be undertaken in compliance with the NEDA Board Resolution. Following this partial termination, the Project Management Consultancy contract with Engineering Science Incorporated was amended. Portions of the contract directly related to the deleted activities were taken out. The funds intended for the deleted activities, which were approximately 30% of the total contract costs, were realigned to finance additional training activities and to purchase additional office and training equipment. All uncommitted and unearmarked funds except those committed through the ESI contract were deobligated in August 1989.

The project changes resulting from the partial termination were formalized through Project Agreement Amendment No. 2 dated July 24, 1990. The amendment to the Agreement included the revision of the Project Description Section and the Financial Plan.

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13

LIST OF PMC PROFESSIONAL STAFF

| Name | Position | Arrival Date | Departure Date |
|-------------------------------------|-----------------------------------|--------------|----------------|
| 1. <u>Engineering-Science, Inc.</u> | | | |
| C. J. Thompson | Principal-In-Charge | 12 Feb. 1989 | 16 Feb. 1989 |
| | | 23 Apr. 1989 | 26 Apr. 1989 |
| | | 23 May 1989 | 25 May 1989 |
| | | 23 July 1989 | 27 July 1989 |
| | | 03 Sep. 1989 | 06 Sep. 1989 |
| | | 19 Nov. 1989 | 22 Nov. 1989 |
| | | 04 Feb. 1990 | 07 Feb. 1990 |
| | | 01 May 1990 | 04 May 1990 |
| | | 03 June 1990 | 05 June 1990 |
| | | 19 Aug. 1990 | 21 Aug. 1990 |
| John McGill | Team Leader | 02 Feb. 1989 | 29 Aug. 1989 |
| | | 17 Sep. 1989 | 15 Feb. 1990 |
| | | 09 Mar. 1990 | 26 Sep. 1990 |
| C. T. White | RWSS Engineer | 30 Jan. 1989 | 31 Mar. 1989 |
| | | 16 Apr. 1989 | 18 Sep. 1989 |
| | | 07 Oct. 1989 | 04 Dec. 1989 |
| James Baker | Budget & Fiscal System Adviser | 14 Mar. 1989 | 26 May 1989 |
| | | 12 July 1989 | 12 Aug. 1989 |
| | | 09 Oct. 1989 | 11 Nov. 1989 |
| H. C. Collings | Training Adviser | 25 Mar. 1989 | 16 July 1989 |
| | | 28 July 1989 | 22 Dec. 1989 |
| | | 15 Jan. 1990 | 04 May 1990 |
| D. Tillson | Hydrogeol./GW. Dev. Adviser | 30 Mar. 1989 | 04 Aug. 1989 |
| | | 13 Sep. 1989 | 22 Sep. 1989 |
| R. Peterson | System Analyst/MIS Adviser | 28 Apr. 1989 | 27 May 1989 |
| C. Chandler | Health Education/Comm. Dev. Spec. | 04 June 1989 | 15 July 1989 |
| S. De Saram | RWSS Eng.-Contr./O&M | 21 Sept 1989 | 28 Sep. 1990 |
| W. Berg | Training Adviser | 18 May 1990 | 28 Spe..1990 |

| Name | Position | Arrival Date | Departure Date |
|---|--------------------------------------|--------------|----------------|
| <u>2. Basic Technology and Management Corporation</u> | | | |
| S. Samaniego | Hydrogeologist | 25 July 1989 | 30 Sep. 1990 |
| R. Domingo | System Analyst/ MIS Specialist | 16 Mar. 1989 | 30 Sep. 1990 |
| R. De Vera | Trainer | 12 Apr. 1989 | 30 Sep. 1990 |
| B. Tabangcura | Trainer | 05 Feb. 1990 | 30 Sep. 1990 |
| J. Mariano | Trainer | 24 June 1989 | 30 Sep. 1990 |
| A. Villafria | Trainer | 29 Jan. 1990 | 30 Sep. 1990 |
| <u>3. Carolmind Management and Industrial Corporation</u> | | | |
| W. Pormento | Training Coordinator | 07 Feb. 1989 | 30 Sep. 1990 |
| M. Balaan | Community Development Coordinator | 07 Feb. 1989 | 30 Sep. 1990 |
| G. Aguilar | Budget & Fiscal Sys. Specialist | 01 May 1989 | 30 Sep. 1990 |
| Z. Pormento | Training Materials Specialist | 01 May 1989 | 31 Dec. 1989 |
| D. Mercado | Community Development Specialist | 01 May 1989 | 30 Sep. 1990 |
| F. Abella | Community Development Specialist | 01 May 1989 | 30 Sep. 1990 |
| A. Hukom | Community Development Specialist | 01 May 1989 | 31 Dec. 1989 |
| M. Operio | Community Development Specialist | 01 May 1989 | 31 Jan. 1990 |
| O. Duenas | Community Development Specialist | 01 May 1989 | 30 Sep. 1990 |
| R. Enojado | Training Specialist | 01 May 1989 | 31 Aug. 1990 |
| R. Enojado | Training Specialist | 01 May 1989 | 31 Aug. 1990 |
| J. Flores | Training Specialist | 01 May 1989 | 31 Oct. 1989 |

TRAINING MODULE STATUS

STATUS (blank-not started/completed; COMP-completed)

| TRAINING MODULE CODE | TRAINING MODULE TITLE | STATUS (blank-not started/completed; COMP-completed) | | | | | | | | | | | | | | | | | | | |
|----------------------|---|--|-------------|-----------------------|------------------------|-----------------------|-------------------------------|-------------------|---------------------------|-------------------|-------------------|---------------|---------------------|----------------|----------|-------------------|-------------------|---------------|---------------|------------------|-------------|
| | | Job Profile | Task Sheets | Normal Job Conditions | Orien-tation Checklist | Resource Requir-ments | Instruc-tion Plan & Worksheet | Terminal Req Obj. | Written Test & Answer Key | Perfor-mance Test | Practice Exercise | Teaching Plan | Informa-tion Sheets | Module Summary | Graphics | Personal Progress | Assessible Module | Pilot Testing | Field Testing | Device Materials | In-Assemble |
| LGSD.3 | Barangay Government Operations | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| MGSD.1 | EMSA Management Orientation and Skills Development | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| MGSD.2 | EMSA Hired Mgmt. Orientation and Skills Development | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| MGSD.3 | EMSA Committee Orientation and Skills Development | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| MGSD.4 | Leadership Development | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| MGSD.5 | Community Resource Mobilization & Management | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| MGSD.6 | Maintenance of Functional & Viable EMSA | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| MGSD.7 | Board of Director Organization & EMSA Registration | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| MGSD.8 | EMSA Operational Planning | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| MGSD.9 | EMSA Organizational Needs Assessment | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| M.1 | Information Sources and Uses | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| M.2 | Project Scheduling | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| M.3 | Data Management | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| M.4 | Program Documentation | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| OTU.1 | Project Overview | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| OTU.31 | Community Organization/Development | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| OTU.55 | Engineering | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| OTU.3C | Operation & Maintenance | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| OTU.3D | Water Source Development | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| OTU.3E | Finance | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| OTU.3F | Project Management Information System | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| QEM.1 | Water System Operation | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| QEM.2 | Water Source Maintenance | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| QEM.3 | Reservoir & Distribution System Maintenance | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| QEM.4 | Fasting Accuracy of Water Meters | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| QEM.5 | Water Meters-Reading, Recording, Billing, Water Loss Intimation | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| QEM.6 | Basic Hydraulics, Basic Electricity and Pumping Theory | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| QEM.7 | Mech./Elec. Theory Relating to O & M | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| S.1 | Preparation of Barangay Signs | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| TCHM.1 | Training Course Design Preparation | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| TCHM.2 | Training Course Implementation | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| TCHM.3 | Training Course Evaluation | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| TOI.11 | Orient'n of TOI/ISD Case/Goal Setting & Level'ng of Expect'n | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| TOI.1B | Orient'n of TOI/ISD Case/Case Back'nic & Overview of TOI/ISD | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| TOI.1C | Orient'n of TOI/ISD Case/EMSP Organization Structure | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| TOI.2 | Public Speaking Techniques | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| TOI.4 | Use of L/V Equipment/Training Aid | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| TOI.5 | Methods of Instruction (MI) | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| TOI.6 | Motivation, Impressions, Habits and Blocks to Learning | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| TOI.7 | Interpersonal Relationships, and Non-Verbal Communication | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| TOI.8 | Personality/Human Development | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| TOI.9 | Presentation Skills | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| TOI.10 | Self Assessment | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| TOI.11 | Leadership | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| NSDS.1 | Preliminary Assessment of Water Source Potential | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |

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TRAINING MODULE STATUS

| TRAINING MODULE CODE | TRAINING MODULE TITLE | STATUS (blank=not started/completed; COMP=completed) | | | | | | | | | | | | | | | | | | | |
|----------------------|--|--|-------------|----------------------|-----------------------|-----------------------|------------------------------|--------------------|---------------------------|-------------------|-------------------|---------------|---------------------|----------------|----------|-------------------|-------------------|---------------|---------------|------------------|---------------|
| | | Job Profile | Task Sheets | Usual Job Conditions | Cris-tation Checklist | Resource Requir-ments | Instruc-tion Plan & Workbook | Terzidal Inst-ment | Written Test & Answer Key | Perfor-mance Test | Practice Exercise | Teaching Plan | Infor-mation Sheets | Module Summary | Graphics | Personal Progress | Assessable Module | Pilot Testing | Field Testing | Device Materials | Es-Accessible |
| WSDS.2 | Recognition of Existing Wells & Springs | | | | | | | | | | | | | | | | | | | | |
| WSDS.3 | Preliminary East Source Evaluation | | | | | | | | | | | | | | | | | | | | |
| WSDS.4 | East Source Reevaluation | | | | | | | | | | | | | | | | | | | | |
| WSDS.5 | Test Pumping | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| WSDS.6 | Locate and Plan Test/Production Wells | | | | | | | | | | | | | | | | | | | | |
| WSDS.7 | Select Well Drilling Method | COMP | | | | | | | | | | | | | | | | | | | |
| WSDS.8 | Well Drilling Specs. and Drilling Contractor Selection | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| WSDS.9 | Well Design | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| WSDS.10 | Construction and Development of Production Well | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| WSDS.11 | Spring Discharge | COMP | | | | | | | | | | | | | | | | | | | |
| WSDS.12 | Spring Geology & Physical Condition | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP | COMP |
| WSDS.13 | Rehabilitation of Wells | | | | | | | | | | | | | | | | | | | | |
| WSDS.14 | Rehabilitation of Springs | | | | | | | | | | | | | | | | | | | | |

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8

LIST OF MANUALS & PROJECT PAPERS

| NUMBER | TITLE |
|--------|---|
| 1 | DRAFT STANDARD CONTRACT FOR PROCUREMENT OF ARCHITECTURAL AND ENGINEERING SERVICES |
| 2 | DRAFT STANDARD TRIPARTITE AGREEMENT |
| 3 | BID DOCUMENTS FOR THE SUPPLY OF PERSONAL COMPUTERS, PERIPHERAL EQUIPMENT AND SOFTWARE (REVISED) MAY 1989 |
| 4 | LGU AND RWSA PERFORMANCE MONITORING SYSTEM |
| 5 | A COMPUTER PLAN |
| 6 | FINANCIAL FEASIBILITY FOR RWSAs (REVISED AUGUST 1989) |
| 7 | USER'S MANUAL ON MODIFIED SINGLE ENTRY ACCOUNTING SYSTEM FOR LEVEL II RWSAs |
| 8 | USER MANUAL FOR RWSSP BUDGET PLANNING PROGRAM |
| 9 | GENERAL TECHNICAL SPECIFICATIONS FOR PERCUSSION (CABLE TOOL) WELL DRILLING |
| 10 | GENERAL TECHNICAL SPECIFICATIONS FOR ROTARY WELL DRILLING |
| 11 | CONTRACT DOCUMENTS FOR CONSTRUCTION OF WATER SYSTEMS |
| 12 | SUBMERSIBLE PUMP SPECIFICATIONS |
| 13 | PROJECT SCHEDULING |
| 14 | PROPOSED JOB DESCRIPTIONS |
| 15 | TRAINING MODULES |
| 16 | ENGINEERING ECONOMICS |
| 17 | GUIDELINES FOR TECHNICAL DATA COLLECTION |
| 18 | HYDRAULICS OF PRESSURIZED CONDUITS |
| 19 | MANUAL PROCEDURES FOR WATER SYSTEM ANALYSIS |
| 20 | NOTES ON PROCEDURES MANUAL/TRAINING MODULE FOR WATER SYSTEM REPAIR FUNDS |
| 21 | PUMP SELECTION PROCEDURES |
| 22 | OUTLINE OF SUGGESTED PRACTICAL EXERCISE CONCERNING THE ESTABLISHMENT OF A WATER SYSTEM REPAIR FUND AT THE LGU LEVEL |
| 23 | ON-JOB-TRAINERS HANDBOOK |
| 24 | CURRICULUM WRITER'S GUIDE |
| 25 | SYLLABI OF PMO COURSES |
| 26 | MANUAL ON PLANNING AND BUDGETING SYSTEM FOR LEVEL II RWSAs |

LIST OF PROCUREMENT ITEMS

ATTACHMENT E, Page 1

| TYPE OF COMMODITY ^(a) | QTY. | TOTAL VALUE (PESOS) | BRAND MODEL | YEAR PURCHASED | STATUS | WITH USAID EMBLEM (Y/N) |
|----------------------------------|---------|------------------------|-------------------------|-------------------|--------|----------------------------------|
| LAPTOP COMPUTER | 2 UNITS | 54,388.00 | TOSHIBA T1000 | 1989 | W | Y |
| CPU | 1 SET | 77,500.00 | AST P-286M/90 | 1989 | W | Y |
| EGA MONITOR | 1 UNIT | 16,000.00 | AST | 1989 | W | Y |
| TELECOPIER XEROX (FAX) | 1 UNIT | 96,195.00 | FUJI MODEL 7017 | 1989 | W | Y |
| SURGE PROTECTOR/POWER STRIP | 5 PCS. | 1,250.00 | GENERIC | 1989 | W | Y |
| EXT. 5.25 DISK DRIVE W/CABLE | 1 UNIT | 8,500.00 | TOSHIBA | 1989 | W | Y |
| COMBO MACHINE | 1 UNIT | 18,600.00 | GBC MODEL 2000 | 1989 | W | Y |
| CPU 1000 SL 640KB RAM | 2 UNITS | 60,830.00 | TANDY SN101610/1547 ✓ | 1989 | W | Y |
| MONO DISPLAY VM-5 | 1 UNIT | 3,419.90 | TANDY (25-3011) | 1989 | W | Y |
| MONO DISPLAY | 1 UNIT | 3,419.90 | BMC | 1989 | W | Y |
| PRINTER | 2 UNITS | 30,600.00 | EPSON FX-1050 | 1989 | W | Y |
| PRINTER | 2 UNITS | 11,301.40 | EPSON LX-800 W/CABLE | 1989 | W | Y |
| PRINTER | 1 UNIT | 19,500.00 | EPSON LQ-1050 | 1989 | W | Y |
| SOUND SLIDE PROJECTOR | 4 UNITS | 105,890.00 | KODAK AUDIOVIEWER 470 | 1989 | W | Y |
| WALL FAN | 1 UNIT | 755.00 | STANDARD | 1989 | W | Y |
| CASSETTE RECORDER | 1 UNIT | 1,050.00 | SONY M-740 | 1989 | W | Y |
| SHEET FEEDER | 1 UNIT | 6,130.00 | EPSON #7340 | 1989 | W | Y |
| CAMERA W/LENS, FLASH & BAG | 4 UNITS | 69,700.00 | CANON M-EOS | 1990 | W | Y |
| OVERHEAD PROJECTOR | 1 UNIT | 45,200.00 | ELMO HP-285 S | 1990 | W | Y |
| TRIPOD | 4 UNITS | 10,044.90 | VELBON AGB-3C, CU550DVC | 1990 | W | Y |
| VIDEO CAMERA | 4 UNITS | 140,000.00 | NATIONAL PANASONIC | 1989 | W | Y |
| TV MONITOR 20" | 2 UNITS | 19,590.00 | SHARP | 1990 | W | Y |
| VHS VIDEO RECORDER/PLAYER | 4 UNITS | 74,000.00 | PANASONIC MODEL NV-F70 | 1990 | W | Y |
| XEROX MACHINE | 2 UNITS | 170,000.00 | FUJI MODEL 5870 | 1990 | W | Y |
| 2086D COMPUTER | 3 UNITS | 132,000.00 | AMSTRAD | 1990 | W | Y |
| PRINTER | 2 UNITS | 32,000.00 | EPSON FX-1050 | 1990 | W | Y |
| CHARACTER GENERATOR | 2 UNITS | 13,900.00 | JVC MODEL CG-V60 | 1990 | W | Y |

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(a) Items denoted by ** are at Barangay Maasim. Items denoted by @ are undergoing customs processing

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| (a) TYPE OF COMMODITY | QTY. | TOTAL VALUE (PESOS) | BRAND MODEL | YEAR PURCHASED | STATUS | WITH USAID EMBLEM (Y/N) |
|-------------------------------|---------|------------------------|---------------------|-------------------|--------|----------------------------------|
| EXT. 5.25 DISC DRIVE (360KB) | 3 UNITS | 10,500.00 | TEAC FD-55BR | 1990 | W | Y |
| PAPER TRIMMER SIZE 18"X15" | 1 UNIT | 1,180.00 | TOP NO.18 | 1990 | W | Y |
| STAPLER (HEAVY DUTY) | 1 UNIT | 2,000.00 | POWER STONE PS-624 | 1990 | W | Y |
| SLIDE TRAY | 21 PCS. | 9,802.80 | KODAK UNIVERSAL | 1990 | W | Y |
| SLIDE VIEWER | 1 PC | 564.00 | KOUSER | 1990 | W | Y |
| EXECUTIVE TABLE W/TOP GLASS | 14 PCS. | 41,300.00 | NARRA PLY | 1989 | W | Y |
| OFFICE TABLE | 4 PCS. | 9,600.00 | NARRA PLY | 1989 | W | Y |
| CLERICAL TABLE | 10 PCS. | 22,000.00 | NARRA PLY | 1989 | W | Y |
| EXECUTIVE CHAIR | 14 PCS. | 30,800.00 | NARRA PLY | 1989 | W | Y |
| CONFERENCE TABLE | 1 SET | 8,000.00 | NARRA PLY | 1989 | W | Y |
| CLERICAL CHAIR | 10 PCS. | 11,500.00 | LEATHERETTE | 1989 | W | Y |
| CONFERENCE CHAIR | 8 PCS. | 10,400.00 | LEATHERETTE | 1989 | W | Y |
| FILING CABINET | 8 PCS. | 17,900.00 | STEEL | 1989 | W | Y |
| CLOSED TYPE BOOK SHELVES | 2 PCS. | 2,300.00 | CLOSE TYPE | 1989 | W | Y |
| CLOSED TYPE BOOK SHELVES | 2 PCS. | 2,900.00 | NARRA | 1989 | W | Y |
| MAP PLAN | 1 UNIT | 3,050.00 | NARRA | 1989 | W | Y |
| TYPING TABLE | 2 PCS. | 1,500.00 | NARRA | 1989 | W | Y |
| STOCKING CHAIR | 10 PCS. | 1,850.00 | NARRA | 1989 | W | Y |
| BOOK CASE | 2 PCS. | 11,000.00 | NARRA | 1989 | W | Y |
| CONFERENCE TABLE W/CHAIR | 1 SET | 13,000.00 | NARRA | 1989 | W | Y |
| DRAWING BOARD (TABLET) @ | 2 UNITS | 17,668.00 | CALCOMP MODEL 23120 | 1990 | W | Y |
| SCANJET PLUS @ | 2 UNITS | 48,919.00 | HP | 1990 | W | Y |
| SCANJET + INTERFACE KIT @ | 2 UNITS | 19,044.00 | HP | 1990 | W | Y |
| TRUE SCAN @ | 1 UNIT | 62,449.00 | CALERA MODEL S | 1990 | W | N |
| LASER JET IID @ | 1 UNIT | 56,079.00 | HP MODEL IID | 1990 | W | Y |
| PACIFIC DATA PLOTTER IN CRT @ | 2 UNITS | 11,427.00 | PACIFIC CORP. | 1990 | W | Y |
| PACIFIC DATA 25 IN 1 CRT @ | 2 UNITS | 14,707.00 | PACIFIC CORP. | 1990 | W | Y |

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|---------------------------------|---------|------------------------|----------------------|-------------------|-------------|----------------------------------|
| PACIFIC DATA PACIFIC PAGE IID @ | 2 UNITS | 22,854.00 | PACIFIC CORP. | 1990 | W | Y |
| ENVELOPE FEEDER FOR LJ IID @ | 1 UNIT | 6,120.00 | HP | 1990 | W | Y |
| LASER JET @ | 2 UNITS | 14,685.00 | HP MODEL IID 2MB MEM | 1990 | W | Y |
| PRINTER @ | 1 UNIT | 21,840.00 | EPSON LQ-2550 | 1990 | W | Y |
| LASERJET III @ | 1 UNIT | 39,292.00 | HP | 1990 | W | Y |
| TRACKBALL MICE @ | 2 UNITS | 6,433.00 | PC TRAC | 1990 | W | Y |
| DESKJET PLUS @ | 2 UNITS | 31,933.00 | HP | 1990 | W | Y |
| PRINTER SHARING DEVICE @ | 1 UNIT | 16,082.00 | FIFTH GENERATION | 1990 | W | Y |
| MEMORY KIT 1MB @ | 2 UNITS | 13,765.00 | TANDY | 1990 | W | N |
| CPU @ | 2 UNITS | 91,734.00 | TANDY 4000 | 1990 | W | Y |
| HD ONLY CONTROLLER @ | 2 UNITS | 11,471.00 | TANDY | 1990 | W | N |
| 40MB HD KIT 40MS @ | 2 UNITS | 18,133.00 | TANDY | 1990 | W | N |
| 1.2M FDO KIT @ | 2 UNITS | 8,483.00 | TANDY | 1990 | W | N |
| VGA ADAPTER @ | 3 UNITS | 16,080.00 | TANDY | 1990 | W | N |
| VGM300 RGB MONITOR @ | 2 UNITS | 29,110.00 | TANDY | 1990 | W | Y |
| 80387-16 COPROCESSOR @ | 2 UNITS | 26,158.00 | TANDY | 1990 | W | N |
| 40 MEG HDC 1K3K4K @ | 1 UNIT | 13,884.00 | TANDY | 1990 | W | N |
| AST RAMPAGE/2-256 @ | 1 UNIT | 5,253.00 | TANDY | 1990 | W | N |
| VGM200 RGB MONITOR @ | 1 UNIT | 11,374.00 | TANDY | 1990 | W | Y |
| VOLTAGE REGULATOR | 1 UNIT | 2,750.00 | WILSON 500 | 1990 | W | Y |
| MOUSE | 4 PCS. | 3,200.00 | GENERIC | 1990 | W | Y |
| WALL CLOCK | 1 PC. | 235.00 | REGENT | 1990 | W | Y |
| PRINTER STAND | 1 PC. | 300.00 | GENERIC XU-S193 | 1990 | W | N |
| DATA SWITCH | 2 PCS. | 1,500.00 | GENERIC | 1990 | W | Y |
| PRINTER CABLE | 2 PCS. | 340.00 | GENERIC | 1990 | W | N |
| DISKETTE FILE | 2 PCS. | 340.00 | GENERIC | 1989 | W | Y |
| EXHAUST FAN | 2 PCS. | 113.00 | MFB 200V | 1989 | W | Y |

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|-------------------------------------|----------|------------------------|----------------------|-------------------|-------------|----------------------------------|
| EARPHONE FOR SOUND/SLIDE PROJECTOR | 1 PC. | 400.00 | GENERIC | 1990 | W | Y |
| WALL CLOCK | 1 PC. | 112.00 | NIKON | 1990 | W | Y |
| VOLTAGE REGULATOR | 5 UNITS | 7,000.00 | GENERIC | 1990 | W | Y |
| GUITAR/HARD CASE | 1 PC. | 1,450.00 | GENERIC | 1990 | W | Y |
| COMPRESSOR, AIR HOSE & CLAMPS ** | 1 SET | 9,180.00 | ENERGAIN MODEL OG071 | 1990 | W | Y |
| BUSHINGS, TEES, FITTING ** | 1 SET | 2,927.00 | G.I | 1990 | W | N |
| PRESSURE GAUGE PSI 100 ** | 2 PCS. | 500.00 | U.S. OTO 160 | 1990 | W | N |
| CABLE TIES ** | 70 PCS. | 343.00 | SIZE 8" & 4" | 1990 | W | N |
| PLUMBING SUPPLIES ** | 1 SET | 94.20 | GENERIC | 1990 | W | N |
| BULK FLOWMETER ** | 1 SET | 5,500.00 | ASAHI 1.5" | 1990 | W | Y |
| VALVES & COUPLING FOR FLOWMETER** | 1 SET | 289.50 | GENERIC | 1990 | W | N |
| ADJ. WRENCH, SCREW DRIVER ** | 1 SET | 161.00 | GENERIC | 1990 | W | N |
| LONGNOSE PLIER ** | 1 PC. | 110.00 | GENERIC | 1990 | W | N |
| STEEL TAPE ** | 1 PC. | 50.00 | 3M | 1990 | W | N |
| BIT BRACE, AUGER BITS, HACKSAW ** | 1 SET | 3,060.00 | STANLEY, DUPPON | 1990 | W | N |
| STEEL TAPE 30M ** | | | GENERIC | 1990 | W | N |
| WATER CONTAINER (18 GAL PLASTIC)** | 1 PC. | 65.00 | GENERIC | 1990 | W | N |
| CIRCUIT BREAKER ** | 1 PC. | 220.00 | GENERIC | 1990 | W | N |
| COUPLING, HOSE, WASHERS, ETC. ** | 1 SET | 41.50 | GENERIC | 1990 | W | N |
| PRESS REG, FITTINGS, NIPPLE, HOSE** | | 1,535.00 | GENERIC | 1990 | W | N |
| VOLTMETER ** | 1 PC. | 800.00 | INDEX 0-300V AC | 1990 | W | N |
| PLIER,CUTTER,ALLEN WRENCH,CLIPPER** | 1 PC,EA. | 915.00 | CRESCENT | 1990 | W | N |
| NYLON ROPE ** | 60M | 36.00 | GENERIC | 1990 | W | N |
| TRANSFORMER,AC METER,TOGG SWITCH** | 1 PC,EA. | 425.00 | GENERIC | 1990 | W | N |
| CLAW HAMMER, ZIGZAG RULE ** | 1 PC,EA. | 250.00 | STANLEY | 1990 | W | N |
| SCREW DRIVER ** | 1 PC. | 25.00 | RUBICON | 1990 | W | N |
| FILTER ELEMENT FOR COMP ** | 6 PCS. | 150.00 | GENERIC | 1990 | W | N |

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|---|----------|------------------------|----------------------|-------------------|--------|----------------------------------|
| PRESS GAUGE (15PSI), BUSHING ** | 1 PC.EA. | 760.00 | GENERIC | 1990 | W | N |
| ELECTRIC WIRE #14 ** | 4M | 17.40 | GENERIC | 1990 | W | N |
| NIPPLE 3"X4" G.I. ** | 2 PCS. | 180.00 | GENERIC | 1990 | W | N |
| PADLOCK ** | 1 PC. | 30.00 | YALE | 1990 | W | N |
| TOOL BOX (HEAVY DUTY) ** | 1 SET | 300.00 | ARMY TYPE USA | 1990 | W | Y |
| ELECT. WIRE ** | 2M | 56.00 | GENERIC | 1990 | W | N |
| WALL CLOCK ** | 1 PC. | 200.00 | NIKON | 1990 | W | N |
| SOCKET WRENCH | 1 SET | 1,000.00 | STANELY | 1990 | W | N |
| TESTER, CLAMP METER | 1 SET | 7,048.00 | YOKOGAWA/NATIONAL | 1990 | W | Y |
| LEVEL, TALLYMETER, STOPWATCH, BINO, MAG | 1 PC.EA. | 8,768.00 | GENERIC | 1990 | W | N |
| MAGNETIC COMPASS | 1 SET | 140.00 | GENERIC | 1990 | W | N |
| FIBERGLASS TAPE | 1 PC. | 400.00 | 50M | 1990 | W | N |
| POWER METER, CLAMP METER | 1 PC.EA. | 26,615.00 | YOKOGAWA/NATIONAL | 1990 | W | Y |
| VOLTMETER | 3 PCS. | 3,810.00 | INDEX 0-300V | 1990 | W | N |
| BRUNTAN COMPASS, ALTIMETER, LEVEL | 5 PCS. | 13,850.00 | BRUNTAR, SEMDO ABNEY | 1990 | W | N |
| MULTITESTER | 1 UNIT | 550.00 | SANWA | 1990 | W | Y |
| TWINLET PIPE, NOZZLE, DIFFUSER, VALVE | 1 SET | 1,550.00 | GENERIC | 1990 | W | N |
| BULK FLOWMETER | 1 UNIT | 14,433.30 | ASAHI 3" | 1990 | W | Y |
| UNION | 2 PCS. | 560.00 | GF | 1990 | W | N |
| TOPO MAPS | 10 PCS. | 520.00 | GENERIC | 1990 | W | N |
| BULK FLOWMETER | 1 SET | 9,500.00 | ASAHI 2" | 1990 | W | Y |
| MAGNETIC STARTER | 1 SET | 2,039.00 | COTTER 7.5 HP | 1990 | W | N |
| CIRCUIT BREAKER | 1 SET | 1,475.00 | 50 AMP 3POLE 220V | 1990 | W | N |
| SAMPLE PICK PLUMB | 2 PCS. | 1,200.00 | GENERIC | 1990 | W | N |
| HAND LENS | 2 PCS. | 790.00 | GENERIC | 1990 | W | N |
| READING GLASS 4" | 2 PCS. | 396.00 | GENERIC | 1990 | W | N |
| STOP WATCH | 1 PC. | 98.00 | DOLMY | 1990 | W | N |

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|------------------------------|----------|------------------------|-----------------|-------------------|-------------|----------------------------------|
| DRAFTING MACHINE | 1 UNIT | 10,500.00 | VEMCO | 1990 | W | Y |
| DRAWING INSTRUMENTS | 1 UNIT | 2,000.00 | STEADTLER | 1990 | W | N |
| FIBERGLASS TAPE 50M | 1 UNIT | | GENERIC | 1990 | W | N |
| LEVELING RODS (ALUM) | 2 PCS. | 4,400.00 | 4 SECTION | 1990 | W | Y |
| TRIANGULAR SCALE | 1 UNIT | 175.00 | GENERIC | 1990 | W | N |
| PLUMP BOB | 2 PCS. | 530.00 | GENERIC | 1990 | W | N |
| PROTRACTOR | 2 PCS. | 70.00 | GENERIC | 1990 | W | N |
| LEROY LETTERING SET | 1 SET | 11,500.00 | K&E LEROY | 1990 | W | N |
| TECHNICAL PEN SET | 1 UNIT | 2,000.00 | HOPE/ASTROGRAPH | 1990 | W | N |
| STEEL TAPE | 2 UNITS | 110.00 | 3M | 1990 | W | N |
| CARPENTER LEVEL | 1 UNIT | 350.00 | GENERIC | 1990 | W | N |
| ELECTRIC DRILL | 1 PC. | 1,750.00 | BLACK & DECKER | 1990 | W | Y |
| SET DRILL BITS | 1 SET | 198.00 | CRESCENT | 1990 | W | N |
| LINEMAN PLIER | 1 PC. | | CRESCENT | 1990 | W | N |
| CUTTER PLIER | 1 PC. | 390.00 | CRESCENT | 1990 | W | N |
| LONG NOSE PLIER | 1 PC. | 375.00 | CRESCENT | 1990 | W | N |
| ROTRING SET W/DRAFTING BOARD | 1 UNIT | 812.50 | ROTRING | 1990 | W | Y |
| PLUMBING & ELECT. SUPPLIES | 1 SET | 1,163.90 | GENERIC | 1990 | W | N |
| SCREWDRIVER SET (6 PCS.) | 1 SET | 140.00 | STANLEY | 1990 | W | N |
| PIPE WRENCH 12" | 1 PC. | 250.00 | STANLEY | 1990 | W | N |
| ALLEN WRENCH (8 PCS.) | 1 SET | 65.00 | GENERIC | 1990 | W | N |
| HAMMER | 1 PC. | 150.00 | STANLEY | 1990 | W | N |
| VICE GRIP 10" | 1 PC. | 225.00 | GENERIC | 1990 | W | N |
| COLD CHISEL 3/4" | 1 PC. | 62.00 | GENERIC | 1990 | W | N |
| COLD CHISEL 1" | 1 PC. | 72.00 | GENERIC | 1990 | W | N |
| GATE VALVE 3/4" | 1 PC. | 195.00 | PP | 1990 | W | N |
| CHECK VALVE 3/4" | 1 PC. | 86.00 | SWING | 1990 | W | N |
| DESKTOP EQUIPMENT | NUMEROUS | 7,784.00 | VARIOUS | 1989/1990 | W | N |
| DRAFTING EQUIPMENT | NUMEROUS | 13,647.00 | VARIOUS | 1989/1990 | W | N |
| REFERENCE MATERIALS | NUMEROUS | 37,472.00 | VARIOUS | 1989/1990 | W | N |

TRAINING ACTIVITY SUMMARY

| <u>Training Activity/Date</u> | <u>Location</u> | <u>No. of Trainees</u> | |
|---|--|------------------------|------------------|
| | | <u>Planned</u> | <u>Certified</u> |
| Training of Trainers/ Instructional System Development (TOT/ISD) Cycle I | | | |
| - Phase I (May 29-June 30, 1989) | Manila | 25 | 24 |
| - Phase II (July 31-Aug. 30, 1989) | Iloilo, Oroquieta, Davao, Bataan | 25 | 15 |
| - Phase III (Sept. 18-Dec. 8, 1989) | Iloilo, Oroquieta, Davao, Bataan | 15 | 15 |
| Training of Trainers/ Instructional System Development (TOT/ISD) Cycle 2 | | | |
| - Phase I (Sept. 11-Oct. 20, 1989) | Manila | 25 | 25 |
| - Phase II (Feb. 1-24, 1990) | Bulacan, La Union, Isabela, Camarines Sur | 44 | - |
| - Phase III (May 2-July 25, 1990) | Bulacan, La Union, Isabela, La Union | 30 | - |
| Training of Trainers/ Instructional System Development (TOT/ISD) Cycle 3 | | | |
| - Phase I (Feb. 19-Apr. 6, 1990) | Manila | 15 | 15 |
| - Phase II (Apr. 16-20, 1990) | Manila | 20 | - |
| - Phase III (May 9-July 13, 1990) | Manila Batangas | 15 24 | 10 - |

TRAINING ACTIVITY SUMMARY

| <u>Training Activity/Date</u> | <u>Location</u> | <u>No. of Trainees</u> | |
|---|-----------------|------------------------|------------------|
| | | <u>Planned</u> | <u>Certified</u> |
| Orientation on the Maasim RWSSP Experience (Apr. 23-27, 1990) | Manila | 40 | 40 |
| Out-Of Country Training (July 6-Aug. 5, 1990) | U.S.A. | 7 | 5 |
| Project Management Workshop | | | |
| - Group I (Aug. 12-25, 1990) | Davao | 35 | 35 |
| - Group II (Sept. 2-15, 1990) | Legaspi | 35 | 35 |
| - Group III (Sept. 16-29, 1990) | Cebu | 35 | - |
| RWSSP-PMO CO/CD Enhancement Course (July 16-Aug. 10, 1990) | Bulacan | 25 | 15 |
| RWSSP Field Testing Activities (Aug. 13-24, 1990) | Bohol | 19 | 19 |
| RWSSP-PMO CO/CD Training | Batangas | 25 | 23 |