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MEMORANDUM

DATE: April 24, 1990

TO : PPC/CDIE/DI

FROM: Robert T. Dakan, ARO

Subject: Project Assistance Completion Report (PACR) -
ASEAN WATERSHED PROJECT

Project No.: 398-0258.03 (& 498-0258.03)

Grant No. : AID

Project Assistance Completion Date (PACD): December 30, 1989

Project Title: ASEAN WATERSHED PROJECT

Implementing Agency: Los Banos Center, University of the Philippines

Project Funding: AID Regional Funding = \$2,500,000

Other Donors: None

Project Officer: Donald Melville (1984)
Bruce Blackman (1984-1988)
Karl Schwartz (1988)
Robert T. Dakan (1989)

- I. Pursuant to USAID Order No. 1026.9 and as required under Appendix 14A, AID Handbook 3, Chapter 14, the following Project Assistance Completion Report (PACR) is submitted:
- 1 a. Commitments and disbursements under the individual commitment documents are expected to be disbursed within the Terminal Date for Disbursement.
 - b. Adequate funds to cover all disbursements made by the grantees to complete the project were available within the framework of the agreement and the project financial plan.
 - c. Appropriate steps have been taken to deobligate \$50,662.98 of unused funds. An unpaid balance of project funds in the amount of approximately \$46,739.39 will be deobligated after the Terminal Date for Disbursement, i.e. September 30, 1990.

2. Based on the review of the activities within the project which concluded that the project has been successful in establishing a regional watershed linkages, increased cooperation among ASEAN participating countries in watershed management, enhancing the transfer of developments on various aspects of watershed resources management through information exchange, and providing manpower development in watershed for ASEAN.
3. The last formal project evaluation of the project was conducted in April 1987 by the following Team Composition: From ASEAN are Dr. Achmad Sumitro, an Indonesian professional working as Head of the Department of Forestry Management, Gadjah Mada University, Indonesia; Dr. Nik Muhamad Majid, a Malaysian professional and Head of the Department of Forest Production, Faculty of Forestry, University Pertanian Malaysia; and Mr. Judha Krishnamra, a Thai citizen and Head of the Soil and Water Conservation Division, Department of Land Development, Royal Thai Government. From U.S.: Dr. John Thames, Program Chairman, Watershed Hydrology, University of Arizona. Dr. Thames has broad bilateral and multilateral organization experience. Dr. Heinrich Tschinkel, Regional Forestry Advisor for Central America, AID/ROCAP. Dr. Tschinkel has fifteen years experience with FAO and is familiar with CATIE Regional Watershed Project.
4. No further AID monitoring of the project is necessary.
5. Lessons Learned Which Should be Fed Back into Mission Design and Implementation Activities or Which are Appropriate for Agency Wide Attention:
 - a. Special consideration must be given to the nature of problems and economies of scale in the selection of a regional, national or bilateral approach. In this case the watershed problems of the four participating ASEAN countries do not directly impact on any of the other countries, and all the four countries have several sizeable institutions engaged in watershed research, a regional approach was found not suitable.
 - b. Any project that covers such a broad area as watershed management should identify a few important problem areas that exist in the general region or in a specific country for concentration at the design stage, so that training/research activities can specifically address these problems.
 - c. That it would be useful to assemble watershed management related information from within and outside the region into a training annual for university students, professionals and technicians.

- d. Economics of exploitation and the social and political forces behind them were found to be the major problem in watershed management; training courses should be organized for professionals which include basic principles of socio-economic measurement and survey, incentives, market and infrastructure development, methods of determining economic production functions, benefit-cost analyses and case studies (successes and failures).
- e. Technical exercises, useful methods and techniques, and practical examples should be emphasized in technical training courses.
- f. Attention should be given to select suitable sites for U.S. study tours in order to provide benefits. Regional tours should be encouraged in the spirit of networking.
- g. Organization of symposia be restricted due to high cost and it is questionable if interaction of senior personnel at large meetings improves skills and research in watershed management.
- h. On-the job training was found to be inexpensive and a good vehicle for interaction of participants at the same professional level, however, care should be given to subject matter and organization.
- i. Project Office must have authority to make final selection of candidates for training to make sure of appropriate participants.
- j. National institutions with particular specialties be used for training to benefit the region.
- k. Where information such as abstracts of journal articles are abundantly available from a number of documentation services, computer facilities for documentation or literature search services be available at the implementing agency as well as at the participating countries to improve access to world literature, instead of having the project staff prepare all the information.
- l. Information exchange system should be a two-way system between the Project office and participating countries; participating countries can channel information on watershed issues to the Project office for redistribution.

m. Equipment to be provided to projects should be specified as to its use in as much detail as possible in the project paper.

II. The following additional information required under Appendix 14A, AID handbook 3, Chapter 14 is submitted:

1. Project Status, including the Status of Completion of Various Elements (e.g., procurement, construction, technical assistance, training) - The Project had been completed as of the Project Assistance Completion Date (PACD), December 30, 1989, and all project elements were completed on time.
2. Summary of Contributions Made by the B/G, Donors and Participants (i.e., Planned Versus Actual Inputs): As planned.
3. A brief review of Project Accomplishments: There were a total of 972 professionals who were direct recipients of activities organized by the Project. One symposium, 5 seminars, 6 workshops, and 11 training courses were conducted. There was also one U.S. study tour, one fellowship tour to the U.S. and two study tours in the ASEAN region.

Scholarship grants for graduate studies in watershed management were awarded to 11 professionals - one Ph.D and two Master's students pursued their studies in the U.S. and 8 students (1 doctoral and 7 masteral) in ASEAN universities.

The Project exchanged information by publications, meetings and trainings. Fifteen research papers were translated into English, 16 newsletters were issued, 6 proceedings were published, and 175 research abstracts were compiled. Four manuals on watershed management for ASEAN countries were written.

The Project enhanced cooperation among ASEAN participating countries and the linkages among national watershed agencies. The competence and expertise of the trained and involved professionals is contributing to better management of watershed resources in the region.

4. Assessment of the Extent to Which the Project has Resolved Problem: Problems that had been encountered during the course of the project were resolved. Among these were (a) The Evaluation Team found that there was a very limited technical advantage of a regional approach to watershed research in the ASEAN region; the objective of a regional research network should not be

encouraged. Implementation was then redirected to emphasize watershed training and exchange of information as recommended by the Team. (b) Delays in submission and approval of research proposals for each participating country and delays in the procurement of research equipment caused implementation delays. These particular problems were resolved and a one-year extension of the PACD was granted.

5. Recommendation for Final Adjustments in Project Design, the Appropriateness of Remaining Conditions and Covenants and B/G Reporting Requirements: (a) That the breadth of the project be scoped down to include only a few important problem areas that exist in the general region or in a specific country; (b) That project concentrates on information exchange and training, and limits research to help solve important practical problems only; (c) That on-the-job trainings be emphasized while symposia restricted; (d) That training courses for professionals should address socio-economic aspects of watershed management; (e) That technical training courses should emphasize technical exercises, useful methods and techniques, and practical examples; (f) That regional study tours should be encouraged while special care should be given to site selection for U.S. study tours; (g) That the Project Office have authority to make final selection of candidates for trainings; (h) That national institutionals with particular specialties be used for training to benefit the region; (i) That computer facilities for documentation or literature search services be included as input to the project for improvement of access to world literature of watershed management; (j) That a two-way system of information exchange be encouraged; (k) That equipment to be provided to projects be specified of its use in detail.
6. Definition of continuing and/or post-project AID monitoring responsibilities, including the timing and resources involved: The nature of the project does not require post-project AID monitoring responsibilities.
7. Review of Data Collection Results and Evaluations Remaining to Be Undertaken: No further Data Collection results and evaluations need to be undertaken due to the nature of the project.
8. Summary of Lessons Learned from the Project That Might be Relevant to Programming, Design and Implementation of Other Activities: Summary of Lessons Learned are enumerated under Par.I.5 above.

Attachment I - List of project publications

List of project publications

PUBLICATION		NO. OF COPIES
A. NEWSLETTER		
Volume I	No. 1-4	4,000
Volume II	No. 1-4	4,000
Volume III	No. 1-4	5,500
Volume IV	No. 1-4	8,000
Volume V	No. 1	2,000
B. PROCEEDINGS		
1.	Symposium on Watershed Management and Conservation for Productive and Protective Uplands in the ASEAN Region.	500
2.	Seminar on Researches for Productive and Protective Watershed Resources in the ASEAN Region.	500
3.	Workshop on Standardization of Guidelines for Watershed Management Approaches and Researches in the ASEAN Region.	500
4.	Workshop on Land-Use Planning in a Watershed Context.	750
5.	Seminar on Watershed Research and Management Practices.	1,000
6.	Workshop on Roading and Development Activities in Relation to Soil Erosion and Sedimentation Control in Watersheds.	1,000
7.	Workshop on Standardization and Technology Transfer of Watershed Research and Management Techniques, Practices and terminologies.	1,000
C. ABSTRACTS (VOL. I and II)		
Abstracts of Watershed Management Research and Related Studies in the ASEAN Region		
-	Volume I	1,000
-	Volume II	1,000

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List of project publications

PUBLICATION	NO. OF COPIES
B. MANUALS	
1. Watershed Project Planning, Monitoring and Evaluation	1,000
2. Watershed Instrumentation and Measurements	1,000
3. Land Use Surveys and Capability Classification for Upland Watersheds	1,000
4. Watershed Research	1,000