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UNITED STATES INTERNATIONAL DEVELOPMENT COOPERATION AGENCY
AGENCY FOR INTERNATIONAL DEVELOPMENT
WASHINGTON, D.C. 20523

PROJECT PAPER AMENDMENT

INDONESIA

PRIVATE SECTOR DEVELOPMENT

(497-0329)

000103

MAY 1984

USAID/JAKARTA

AGENCY FOR INTERNATIONAL DEVELOPMENT PROJECT DATA SHEET				1. TRANSACTION CODE <input type="checkbox"/> A = Add <input checked="" type="checkbox"/> C = Change <input type="checkbox"/> D = Delete		Amendment Number <u>One</u>		DOCUMENT CODE <u>3</u>		
2. COUNTRY/ENTITY <u>Indonesia</u>				3. PROJECT NUMBER <u>497-0329</u>						
4. BUREAU/OFFICE <u>ASIA</u>				5. PROJECT TITLE (maximum 40 characters) <u>Private Sector Development</u>						
6. PROJECT ASSISTANCE COMPLETION DATE (PACD) MM DD YY <u>01 15 87</u>				7. ESTIMATED DATE OF OBLIGATION (Under "B." below, enter 1, 2, 3, or 4) A. Initial FY <u>82</u> B. Quarter <u>4</u> C. Final FY <u>84</u>						
8. COSTS (\$000 OR EQUIVALENT \$1 =)										
A. FUNDING SOURCE		FIRST FY <u>82</u>			LIFE OF PROJECT					
		B. FX	C. L/C	D. Total	E. FX	F. L/C	G. Total			
AID Appropriated Total		3000	500	3500	4100	500	4,600			
(Grant)		(500)	()	(500)	(750)	()	(750)			
(Loan)		(2500)	(500)	(3000)	(3350)	(500)	(3,850)			
Other U.S.	1.									
	2.									
Host Country			1800	1800		2650	2,650			
Other Donor(s)										
TOTALS		3000	2300	5300	4100	3150	7,250			
9. SCHEDULE OF AID FUNDING (\$000)										
A. APPROPRIATION	B. PRIMARY PURPOSE CODE	C. PRIMARY TECH. CODE		D. OBLIGATIONS TO DATE		E. AMOUNT APPROVED THIS ACTION		F. LIFE OF PROJECT		
		1. Grant	2. Loan	1. Grant	2. Loan	1. Grant	2. Loan	1. Grant	2. Loan	
(1) FN	270 B	840	840	500	1500	250	850	750	2350	
(2) SD	270 B		840		1500				1500	
(3)										
(4)										
TOTALS				500	3000	250	850	750	3850	
10. SECONDARY TECHNICAL CODES (maximum 6 codes of 3 positions each)								11. SECONDARY PURPOSE CODE		
		831	874					710		
12. SPECIAL CONCERNS CODES (maximum 7 codes of 4 positions each)										
A. Code		BU								
B. Amount										
13. PROJECT PURPOSE (maximum 480 characters)										
To test methods of strengthening the Indonesian private sector through training and links to the U.S. private sector, provide information to Indonesian decision makers about opportunities to develop the Indonesian private sector, and accelerate the growth of output, productivity, and employment capacity of non-farm enterprises in the province of Central Java.										
14. SCHEDULED EVALUATIONS					15. SOURCE/ORIGIN OF GOOD AND SERVICES					
Interim		MM YY	MM YY	Final		MM YY				
		03 85				01 87	<input checked="" type="checkbox"/> 000	<input checked="" type="checkbox"/> 941	<input checked="" type="checkbox"/> Local	<input type="checkbox"/> Other (Specify)
16. AMENDMENTS/NATURE OF CHANGE PROPOSED (This is page 1 of a _____ page PP Amendment.)										
This amendment adds funds to undertake activities that promote marketing and production improvements in light manufacturer and agro-industry in Central Java.										
17. APPROVED BY		Signature			Date Signed			18. DATE DOCUMENT RECEIVED IN AID/W, OR FOR AID/W DOCUMENTS, DATE OF DISTRIBUTION		
		Robert K. Clark			<u>Robert K. Clark</u>					
		Title								
		Acting Director								
		USAID/Indonesia								

PROJECT AUTHORIZATION AMENDMENT

INDONESIA

PRIVATE SECTOR DEVELOPMENT
EXPLORATORY PROJECT
PROJECT 497-0329

1. Pursuant to Section 103 and 106 of the Foreign Assistance Act of 1961, as amended, the Private Sector Development Exploratory Project for the Republic of Indonesia was authorized on August 6, 1982. That authorization is hereby amended as follows:

a. An additional \$850,000 in loan funds and \$250,000 in grant funds is hereby authorized over a one year period from the date of authorization, subject to the availability of funds in accordance with the A.I.D. OYB/allotment process, to help in financing foreign exchange and local currency costs for the Project. The total amount authorized for obligation is thereby increased to \$3,850,000 in loan funds and \$750,000 in grant funds.

2. The authorization cited above remains in force except as hereby amended.

Signature: _____

Robert K. Clark

Robert K. Clark
Acting Director

Date

: 5/31/84

Clearances: PRO:JSPERLING: *M J Sp*
EED:TMYERS: *M*
FIN:RMCLURE: *R. M. Clure*
DD:RCLARK: *R. K. Clark*

rc
Drafted:LA:LC:hiles:mai, 5/29/84

AMENDMENT TO THE PRIVATE SECTOR DEVELOPMENT PROJECT (497-0329)

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PRIVATE SECTOR DEVELOPMENT PROJECT
(497-0329)

I. BACKGROUND

The Private Sector Development Project, signed September 30, 1982, was the first project responding to AID's increased-emphasis on the private sector as a force in development. As such, it was explicitly an exploratory effort to test methods by which the GOI with USAID assistance could increase the private sector's contribution development objectives.

Work in launching the private sector project and efforts during the past two years to design the Central Java Enterprise Development Project have identified a number of activities whose pursuit will develop case studies of constraints on and opportunities for the private sector and will strengthen private sector capacity in areas of high employment potential. This amendment adds funds to undertake these activities and to evaluate and use the experience they provide. Activities undertaken under the amendment will begin as soon as it is signed and will continue through January 15, 1987, requiring an extension of the Project Assistance Completion Date for the Private Sector Project from September 1, 1986 to January 15, 1987.

II. PROJECT AMENDMENT DESCRIPTION

The amendment adds \$850,000 in loan and \$250,000 in grant funds from USAID and \$850,000 from the GOI to the Private Sector Development Project. These funds will be used to promote marketing and production improvements in light manufacture and agro-industry in Central Java.

The activities funded by its amendment were selected following more than two years of intensive design work in Central Java. After a review of a variety of factors affecting enterprise development, AID and the GOI selected several interventions which promise to increase jobs, productivity and profits of small and medium-sized business. The amendment will provide traditional components of donor assistance--technology transfer, training, research--to assist individual private companies and to develop prototypes for products available to all companies in a given industry. It is expected that the individual firms assisted will serve as models to others, and that prototypes, well-researched and well-developed, will be adopted by industry. The project essentially tests the capacity of the Indonesian businessman to respond entrepreneurially to exploit profitable opportunities and the ability of public programs to stimulate that response. It will provide the GOI, AID, other donors and the private sector itself with information on new private sector opportunities, approaches to attract the private sector to those opportunities and on ways that the government, with donor assistance and with proper policies, can strengthen the private sector and its contribution to employment generation. It will also strengthen institutions capable of, and interested in, working with small businesses.

III. THE BUDGET: PRIVATE SECTOR DEVELOPMENT PROJECT
(US \$000)

	AID Loan	AID Grant	GOI	Other
A. <u>Original Budget</u>				
1. <u>Technical Assistance</u>				
a. Facilitating Private Investment	1,700		180	
b. Special Studies	400		180	
c. Lhok Seumawe Studies	500			
d. Management Training		400	100	
<u>Total Technical Assistance</u>	<u>2,600</u>	<u>400</u>	<u>460</u>	
2. <u>Training Loan Fund</u>			1,300	
3. <u>Evaluation</u>		50		
4. <u>Contingencies</u>	400	50	40	
<u>Total Project</u>	<u>3,000</u>	<u>500</u>	<u>1,800</u>	
B. <u>Amendment to Revised Budget</u>				
1. <u>Technical Assistance</u>				
a. Central Java Enterprise Development	850	250	850	165*
C. <u>Revised Budget</u>				
1. <u>Technical Assistance</u>				
a. Facilitating Private Investment	1,700		180	
b. Special Studies	400		180	
c. Lhok Seumawe	500			
d. Management Training		400	100	
e. Central Java Enterprise Development	850	250	850	165*
<u>Total Technical Assistance</u>	<u>3,450</u>	<u>650</u>	<u>1,310</u>	
2. <u>Training Loan Fund</u>			1,300	
3. <u>Evaluation</u>		50		
4. <u>Contingencies</u>	400	50	40	
<u>Total Project</u>	<u>3,850</u>	<u>750</u>	<u>2,650</u>	165*

* Grant funds from AID/W cooperative agreement with Michigan State University.

iv. AMPLIFIED DESCRIPTION

Activities undertaken under the project amendment will provide tangible examples of new areas for private sector operation. They will encourage the private sector become more active in areas where business opportunity and profitability combine with employment potential and developmental objectives by demonstrating profit potential and by providing support required to overcome initial constraints. They will test approaches to strengthen services, public and private, available to the private sector and provide information on policies and regulations which may limit the effectiveness of the private sector. They will be focused in two areas—light manufacturing, both import replacement and export generation—and agro-industry.

A. LIGHT MANUFACTURE

1. Import Replacement: This aspect of the project seeks, through development of prototypes and provision of technical assistance, to expose Indonesian entrepreneurs to new profit opportunities in Indonesia's large and growing domestic market. It funds research and development by Indonesian engineers on agroprocessing equipment of local design for which a market has already been identified and where development of technically appropriate prototypes is likely to lead to a breakthrough in domestic production. Four such pieces of equipment have already been selected: (1) a rice husk bricket machine to produce fuel in rural areas; (2) equipment to utilize coconut shell waste to produce a powder used in plastics; (3) a sawdust-fueled engine; (4) a process for producing activated charcoal.

The project will also include an inventory by the Ministry of Industry's Metal Industry Development Center (MIDC) of spare parts and components currently imported but which could be manufactured locally.

Funds will be made available to MIDC to develop and test prototypes of items identified as having high potential and to assist MIDC and local engineering firms with their commercial production.

Indonesian engineering institutions involved in the project and the MIDC will pass technical innovations on to producers directly and via producer organizations and associations. Larger firms may be used to pass on technical innovations to smaller producers with whom they are affiliated. Prototypes will be developed only in those areas where a market and interested producer both exist. The Indonesian engineering institutions may contract out development of some prototypes if they do not have the capacity to produce them in-house.

2. Export: While the import-replacement sub-project will encourage production of new products, the export sub-project will research production already taking place. The design team for the Central Java project identified potential for increased export of garments, rattan and wood products, and ornamental brass.

This aspect of the project will attempt to develop markets for these products and overcome quality control, design and other constraints on increased sales abroad. It will begin with an inventory to identify producers with the capacity to produce for the world market. Once identified, the producers will be assisted to expand exports through technical advice, contacts with foreign buyers, workshops and training programs.

3. AGRO-INDUSTRY

Opportunities exist for value-added and employment creation in industries linked to agricultural production, the mainstay of the Javanese economy. Shrimp production is one of the most readily expandable agro-industries in terms of private sector opportunities for technological intervention and large domestic and foreign markets. Shrimp have been cultivated in brackish-water ponds in Java for centuries. Great production increases are possible if appropriate technology is introduced. Hatcheries currently can supply only a fraction of the fry required; scientifically blended feed necessary to maximize production is not available in sufficient quantity. Simple, pedal-powered aerators could expand production yet further. Research has identified inefficient operation of hatcheries as the primary bottleneck to be broken and the sine qua non without which the other interventions can have but limited effectiveness.

Under this activity, the shrimp expert will provide technical assistance to private sector hatcheries in Central Java, initially concentrating his efforts on the development of one private hatchery, selected during the design phase, as a demonstration model. The model hatchery to develop and test will be open to allow other hatchery operators to observe new technologies being introduced into his operations. The shrimp expert will use the model hatchery appropriate hatchery technology as a site for training demonstrations open to all hatchery operators. This element of the project tests the hypothesis that the private sector will respond to a demonstration of profitability and effectiveness of new hatchery technologies that are neither exceptionally sophisticated nor particularly expensive but which can produce impressive returns.

In addition to his work at the model hatchery, the shrimp expert will be available for consultation on specific problems at individual hatcheries and to assist the Brackish Water Institute in its program to develop a shrimp food appropriate to Indoensia. He will work with feed manufacturers on the commercialization of a new shrimp food once it is developed and with Indonesian engineers on the testing and marketing of appropriate pond technologies--aerators and circulators. He will be assisted in his work by an Indonesian counterpart.

C. RESEARCH AND EVALUATION

The project also provides funds for research and evaluation. A major objective of the project is to identify constraints on the private sector and to suggest means of addressing those constraints. Research funds will be used to do studies on policy or regulatory constraints affecting project activities and to evaluate the activities in terms of general lessons they offer concerning private sector development. Policy issues identified during the course of project activity will be discussed in quarterly reports to BAPPEDA and raised at annual meetings of the steering committee.

D. END OF THE PROJECT STATUS

The end of the project should find in place increased private sector activity in agroprocessing and light manufacturing, improved support services to the private sector, on-going discussion of policies affecting the private sector within BAPPEDA, government agencies and private business associations and a body of information identifying and evaluating approaches to address constraints on private sector development.

1. Outputs: Specific outputs from the project include model operations at one private sector hatchery and improved technology at three others in Central Java; development of an appropriate shrimp food; increased research and extension at the Brackish Water Institute; new pond technology, including appropriate food, aerators and circulators, and training and workshops for tambak (pond) farmers; prototypes for agroprocessing equipment and for spare parts and components developed, tested and entering commercialization; increased research and development capacity within the private sector, increased extension and research capability at the Metal Industry Development Center; increased information on, and discussion of, policy and regulatory issues affecting private sector development.

2. Inputs: The major input in the project is technical assistance from US experts and from Indonesian counterparts. The project calls for one full time expatriate advisor to serve as chief of party and small business development and marketing advisor. He will be assisted by a senior Indonesian counterpart, an expatriate shrimp advisor for 18 months, and two Indonesian consultants, one in shrimp and a second in metal and engineering. The project also provides for short-term technical assistance, Indonesian and expatriate, and for subcontracts with public and private institutions.

The activities will include some training, largely through workshops, and a limited number of study tours. The project provides funds for procurement of two automobiles, two motorcycles and limited materials required to demonstrate new hatchery technology and appropriate design and quality control in light manufactured exports.

V. IMPLEMENTATION

Implementation of the project activities will be carried out by a team of consultants and subcontractors working under the supervision of BAPPEDA Central Java. As in the original project loan agreement, the borrower will be represented by the individual holding or acting in the office of Chairman or Vice Chairman, National Development Planning Agency (BAPPENAS), who will designate as his representative for the purpose of this amendment the Director General of Regional Development, Dalam Negri. Dalam Negri will assign implementation authority to BAPPEDA Central Java. The head of BAPPEDA Central Java will appoint a project officer to serve as PIMPRO and to supervise project implementation.

The long term contract team may be a joint venture between US and Indonesian firms or a prime contractor with Indonesian or US sub contractors selected with approval of the PIMPRO. It will be funded under a direct contract with USAID. Disbursement of funds provided the grant/loan agreement will be made according to standard GOI and USAID regulations. Subcontracts for short term consultants drawn up by chief of party must be in line with objectives outlined in the Terms of Reference and subject to approval of the PIMPRO and the USAID project officer. For grant funded procurement, goods and services will be solicited from firms or individuals in Indonesia and the United States. Goods and services funded by the project budget will be procured on a competitive basis, advertised in Indonesia as well as abroad for international procurement. Indonesian firms will be eligible to bid for all local and international procurement.

Project activities will be undertaken in two phases--an initial implementation phase of approximately six months between the signing of the project amendment and the arrival of the chief of party and a two year contract-team phase, once the chief of party has arrived.

A. Initial Implementation

Activities will begin immediately following signing of the amendment. The small-industry economist now in Central Java funded by an AID Washington grant cooperative-agreement with Michigan State University will serve as project coordinator and small industry advisor until the arrival of the contract chief of party. He will work with BAPPEDA Central Java and be responsible for initiating an inventory of light manufacturers with potential for export, supervising a study of comparative production costs in Indonesia and other Asean countries and arranging initial buyer consultancies to advise producers on design and quality control. He will coordinate both the work of a short-term shrimp advisor hired on a personal service contract and subcontracts by BAPPEDA for private sector hatchery improvement and for development of appropriate agroprocessing equipment. The short-term shrimp advisor will be responsible for supervising the implementation of subcontracts related to private sector hatchery development and for assisting in the development of a training program for private sector hatcheries.

B. Contract phase: Technical assistance during the contract phase will include a chief of party/small business development and marketing advisor, an expatriate shrimp advisor for 18 months, and three Indonesian consultants. The long-term chief of party will work with BAPPEDA Central Java and have direct responsibility for development of activities in export promotion, including the establishment of support services for buyers, assistance in quality control and design to producers, and links between buyers and producers. He will coordinate subcontracts for research, development and commercialization of agroprocessing equipment, spare parts and components, and he will supervise the administration of activities developed and carried out by the shrimp advisor. The shrimp advisor will be responsible for development and implementation of subcontracts for development and commercialization of shrimp food, for hatchery improvement, pond development and commercialization of pond technology, and for training workshops. The chief of party will be assisted by a senior Indonesian consultant expert in marketing and a second Indonesian consultant in engineering and metal manufacture. The shrimp advisor will be assisted by an Indonesian aquaculture specialist.

C. Implementation Schedule

Month		
Early Implementation	3	Signing of the Project Amendment
	0 - 6	Small Industry Economist, acting chief of party
	0 - 2	Inventory of potential exporters
	0 - 3	First subcontract for agroprocessing equipment prototype
	4 - 5	Short term shrimp advisor
	1 - 3	Subcontract for technical and engineering support for hatchery technical assistance.
	2 - 4	Subcontract for research and development for new hatchery technology
	2 - 4	Cost differential study for light manufactured exports
	3 - 5	Second agroprocessing equipment subcontract
	4 - 5	Training workshop for private hatcheries
	5	Commercialization of agroprocessing equipment
	5	Buyer consultancies for light manufactured exports.
	..	
<u>Contract</u>	6	Arrival chief of party, long-term shrimp advisor, Indonesian consultants.
	7.5	Subcontracts for hatchery assistance.
	8.0	Subcontracts for agroprocessing equipment.
	9	Buyer consultancies, beginning of producer assistance program.
	10	Arrival of short-term metal consultant.
	11	Subcontract for survey of components and spare parts.
	12	Program for commercialization of shrimp feed.
	14	Subcontracts for component and spare parts prototype design.
	16	Workshops on design and quality control.
	16	Work on pond technology, model pond development.
	18	Commercialization of agroprocessing equipment.
	20	Beginning of buyer services.
	22	Follow up short term metal consultancy.
	22	Effort to commercialize spare parts and components prototypes.
	25	End shrimp advisor's tour.
	26	Evaluation of project activities.
	26-30	Commercialization of prototypes, promotion of buyer contacts, training in design and quality control, design of follow-on activities or preparations to close out project.

VI. SCOPES OF WORK

A. TRANSITION PHASE: JUNE 1, 1984 - JANUARY 15, 1985

1. Position: Small Industry Economist, project coordinator

Level of Effort: 6.5 person months

Schedule: July 1, 1984 - January 15, 1985

Position Background: Continuation of project activities undertaken under the GOI/USAID Central Java Enterprise Development Project will be managed and carried out by a contract team beginning in January 1985. Project activities are aimed at increasing productive employment opportunities by Central Java by providing technical assistance to private sector enterprise. The project is based in BAPPEDA, Central Java.

Areas of Responsibility:

a. Contract Management

- * Responsibility for overall contract management.
- * Budgetary control/financial reporting.
- * Liaison with GOI and USAID.
- * Personnel management.
- * Reporting.

b. Technical Supervision and Coordination

- * Supervise and coordinate work of short term advisors and subcontractors.
- * Planning and documentation of project activities.
- * Liaison with technical agencies supporting and involved with project activities.

c. Light Manufacturing and Export Promotion.

- * Planning and implementation of survey of export potential in light manufacturing.
- * Survey of differential costs in Asean countries.
- * Buyer consultancies — planning, organizational, implementation of consultancies by buyers in the Asean region to provide quality control and design advice to Indonesian producers.

2. Position: Shrimp Mariculture Advisor - Interim.

Level of Effort: 2 person months.

Schedule: October 1, 1984 - November 30, 1984.

Position Background: Continuation of project activities undertaken under the GOI/USAID Central Java Enterprise Development Project will be managed and carried out prior to the arrival of a contract team beginning in January 1985. Project activities are aimed at increasing productive employment opportunities by Central Java by providing technical assistance to private sector enterprise. The project is based in BAPPEDA, Central Java.

Areas of Responsibility: The Shrimp Mariculture Advisor will be responsible for the technical management and coordination of interim project agroprocessing activities including:

- a. Delivery of direct technical assistance to Central Java's private sector Penaeid shrimp hatcheries in order to establish their ability for production of post-larvae. Assistance will be aimed at
 - * increasing larvae food production
 - * improving quality of hatchery water
 - * improving climate control ability
 - * upgrading data collections and evaluations
 - * improving hatchery production strategy.
- b. Responsibility for liaison with the Brackish Water Institute and the provincial Fisheries Department to assist in the upgrading of technical assistance to the private sector hatcheries.
- c. Outline basis for further interventions in the shrimp industry for follow-up activities.

Qualifications:

Required:

- a. Advanced training in biology or zoology with emphasis in Penaeid Shrimp Culture Technical.
- b. Experience (min. 3 years) in Penaeid shrimp hatchery operations.
- c. Business or hatchery management experience.
- d. Technical expertise in
 - * Algae culture - semi-intensive and intensive techniques and media preparation.
 - * Larvae culture - intensive techniques and batch feeding procedures.
 - * Artemia culture.
 - * Physical systems - hatchery design, site selections, system evaluations.

Desired:

- a. Experience in technology transfer, training and hatchery operations in tropical areas.
- b. Technical expertise in
 - * Algal isolation procedures.
 - * Aseptic transfer techniques.
 - * Continuous algal culture techniques.
 - * Evaluation of eif and larvae.
 - * Maturation.
 - * Larvae nutrition.
 - * Water chemistry.
 - * Disease prognosis, treatment.
 - * Artemia evaluation/decapsulation.
- c. Ability to work in Bahasa Indonesia.

B: CONTRACT PHASE

1. Position: Chief of Party/Small Enterprise Development Advisor

Level of Effort: 24 person months

Schedule: January 15, 1985 - January 15, 1987

Position Background: Continuation of project activities undertaken under the GOI/USAID Central Java Enterprise Development project will be managed and carried out by a contract team beginning in January 1985. This contract is preceded by a 16 months project design effort and a 15 months pre or pilot implementation activities. Project activities are aimed at increasing productive employment opportunities by Central Java by providing technical assistance to private sector enterprise. The project is based in BAPPEDA, Central Java.

Areas of responsibility:

- a. Contract Management
 - * Responsible for overall contract management.
 - * Budgetary control/financial reporting.
 - * Liaison with GOI and USAID.
 - * Personnel management.
Reporting.
- b. Technical Supervision and Coordination
 - * Supervise and coordinate work of long term and short term advisors in all subproject activities.
 - * Planning and documentation of project activities.
 - * Liaison with technical agencies supporting and involved with project activities.

c. Light Manufacturing and Export Promotion

* Responsible for developing and carrying out light manufacturing and export promotion activities including:

- identifying and recruiting potential buyers from US or outside Indonesia to serve as consultants to identify potential export products, constraints to export and assist with design of project activities.
- work with PVO's, producer groups and individual producers to overcome production and marketing constraints.
- design and implement program for supporting services to potential buyers.
- identify and analyze policy issues relevant to improving the potential for promoting light manufacturing exports.
- identify other types of interventions which may be undertaken in the context of the project.

Qualifications:

Required

- * Higher degree in business administration/economics or related field.
- * Previous experience working in enterprise development (minimum 5 years).
- * Previous contract/project management experience.

Desired

- * Experience in export marketing.
- * Experience in light manufacturing.
- * Experience in Indonesia.
- * Fluency in Indonesian.

B. CONTRACT TEAM

1. Position: Shrimp Mariculture Advisor

Level of Effort: 18 person months

Schedule: January 15, 1985 - June 15, 1986

Position Background: Continuation of project activities undertaken under the GOI/USAID Central Java Enterprise Development Project will be managed and carried out prior to the arrival of a contract team beginning in January 1985. This contract is preceded by a 16 months project design effort and a 15 months pre or pilot implementation activities under which this work will be undertaken.

Project activities are aimed at increasing productive employment opportunities by Central Java by providing technical assistance to private sector enterprise. The project is based in BAPPEBA, Central Java.

Area of Responsibility:

The shrimp mariculture advisor will be responsible for technical management, supervision and coordination of project activities including:

- a. Delivery of direct technical assistance to Central Java's private sector Penaeid shrimp hatcheries in order to continue efforts from the interim phase to produce post larvae. Areas of work include:
 - * Algal and artemia production.
 - * Maturation.
 - * System Management.
 - * Marketing.
- b. Assistance to BBAP and private sector feed producers to in order to commercialize an effective and efficient pelleted diet for pond shrimp culture.
- c. Assist in market development for shrimp pond circulation and aeration technology and use of feeding practices through small demonstration pond efforts.
- d. Provide assistance to processors in areas of quality control in procurement, processing and marketing operations.
- e. Offer assistance to hatcheries, processors and feed producers to design and carry out programs of technical assistance to shrimp pond farmers.

Qualifications:

Required:

- a. Advanced training in biology or zoology with emphasis on penaeid shrimp culture techniques.
- b. Experience (min. 3 years) in Penaeid Shrimp Hatchery operation including maturation, food production and larva; rearing.
- c. Experience with shrimp diet formulation, preparation, production and feeding.
- d. Experience with pond grow out management for Penaeid Shrimp.
- e. Training in sea food technology with emphasis on processing and preservation.
- f. Experience with business or management of mariculture operations.

Desired:

- a. Experience in tropical mariculture productions systems.
- b. Experience in Indonesia.
- c. Working ability in Bahasa Indonesia.

d. Position: Short term Metal and Engineering Industries Consultants

Level of Effort: 6 person months

Schedule: to be determined

Position Background: Continuation of project activities undertaken under the GOI/USAID Central Java Enterprise Development Project will be managed and carried out by a contract team beginning in January 1985. This contract is preceded by a 16 months project design effort and a 15 months pre or pilot implementation activities. Project activities are aimed at increasing productive employment opportunities by Central Java by providing technical assistance to private sector enterprise. The project is based in BAPPEDA, Central Java.

Areas of Responsibility:

The short-term metal and engineering industries consultants will provide technical supervision and assistance to project activities in the metal and engineering industry, including:

- a. Conceptual and technical assistance in agroprocessing technology development.
 - * Assist MIDC with a market demand and production capacity study for agroprocessing equipment which could be manufactured in Central Java.
 - * Assist foundations, producer groups and individual producers with the development of prototype based on the study.
 - * Assist in efforts to commercialize the production and marketing of the prototype developed.

- b. Conceptual and technical assistance in the development of assembly components manufacturing in Central Java.
 - * Assist MIDC with the identification of components which might be produced in Central Java.
 - * Assist in the development of prototypes of identified components.
 - * Assist in the establishment of a system for development of production of these components by small industry with private foundations and the Department of Industry.

Qualifications:

Required:

- * Industrial or mechanical engineering background.
- * Experience with the metal and engineering industries particularly design and prototype development.

- * Experience with agroprocessing technology in developing countries.
- * Experience with small business development.

Desired:

- * Experience with metal and engineering industries in Indonesia.
- * Ability with Bahasa Indonesia.

(Doc.4027A/TMyers/nn)