

PROJECT APPRAISAL REPORT (PAR)

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1. PROJECT NO. 439-11-190-065,6	2. PAR FOR PERIOD: 08-01-70 TO 10-01-71	3. COUNTRY Laos	4. PAR SERIAL NO. 72-5
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5. PROJECT TITLE  
**Agriculture Development - Fisheries**

6. PROJECT DURATION: Began FY <u>66</u> Ends FY <u>74</u>	7. DATE LATEST PROP 5/13/70 ✓	8. DATE LATEST PIP 2/19/70	9. DATE PRIOR PAR 08-01-70 ✓
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10. U.S. FUNDING	a. Cumulative Obligation Thru Prior FY: \$ <u>588,000</u>	b. Current FY Estimated Budget: \$ <u>102,000</u>	c. Estimated Budget to completion After Current FY: \$ <u>93,000</u>
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11. KEY ACTION AGENTS (Contractor, Participating Agency or Voluntary Agency)	
a. NAME <b>U.S. Consultants, Inc.</b>	b. CONTRACT, PASA OR VOL. AG. NO. <b>AID-439-699 ✓</b>

I. NEW ACTIONS PROPOSED AND REQUESTED AS A RESULT OF THIS EVALUATION

A. ACTION (X)			B. LIST OF ACTIONS	C. PROPOSED ACTION COMPLETION DATE
USAID	AID/W	HOST		
			<p><b>PLEASE NOTE:</b> This project has been proposed for financing with supporting Assistance appropriations and therefore has been justified to the U.S. Congress as important to and in support of U.S. Foreign Policy objectives of a political and security nature. As such, its primary purpose or purposes are not developmental, but rather its input to the economy of Laos serves a larger purpose for which it is one of the many assistance tools. It therefore must be evaluated in this context and not purely as a technical assistance project whose primary purpose is economic and/or social development.</p> <p>This is the fourth PAR prepared for this project and no new actions are requested as a result of this periodic appraisal at this time. However, the use of this PAR and the Project Logical Framework during the annual Director's Program Review may result in new actions or emphasis. Areas receiving continued emphasis are:</p> <ul style="list-style-type: none"> <li>participant training,</li> <li>fish culture assistance to refugee villages,</li> <li>hatching at other locations the eggs produced at the basic three fish hatcheries.</li> </ul>	

D. REPLANNING REQUIRES	<input type="checkbox"/> REVISED OR NEW: <input type="checkbox"/> PROP <input type="checkbox"/> PIP <input type="checkbox"/> PRO AG <input type="checkbox"/> PIO/T <input type="checkbox"/> PI/C <input type="checkbox"/> PIO/P						E. DATE OF MISSION REVIEW <b>12/6/71</b>
PROJECT MANAGER: TYPED NAME, SIGNED INITIALS AND DATE <b>Saburo Sugitani</b>				MISSION DIRECTOR: TYPED NAME, SIGNED INITIALS AND DATE <b>Charles A. Mann</b>			

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**II. PERFORMANCE OF KEY INPUTS AND ACTION AGENTS**

A. INPUT OR ACTION AGENT CONTRACTOR, PARTICIPATING AGENCY OR VOLUNTARY AGENCY	B. PERFORMANCE AGAINST PLAN							C. IMPORTANCE FOR ACHIEVING PROJECT PURPOSE (X)				
	UNSATISFACTORY		SATISFACTORY			OUT-STANDING		LOW		MEDIUM		HIGH
	1	2	3	4	5	6	7	1	2	3	4	5
1. U.S. Consultants, Inc.					X						X	
2.												
3.												

Comment on key factors determining rating

Rehabilitation of fish hatcheries and on-the-job training of the RLG staff is proceeding quite well. Additional guidance by contract technicians is needed to achieve the desired level of management ability.

4. PARTICIPANT TRAINING				X									X
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Comment on key factors determining rating

Participants chosen have performed well but it is difficult to find qualified candidates. This is a problem common to all technical fields in Laos and the answer is long term: an improved educational system.

5. COMMODITIES				X							X		
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Comment on key factors determining rating

Ordering, receipt, control and use of commodities has been adequate. Some equipment was received before RLG staff had technical competence to use but this will be remedied by the return of a participant trainee.

6. COOPERATING COUNTRY	a. PERSONNEL			X								X	
	b. OTHER				X							X	

Comment on key factors determining rating

RLG operation of the fish hatcheries and distribution of fingerlings is satisfactory with USAID advisory assistance. Improved management capability for planning and operations is required.

7. OTHER DONORS				X							X		
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(See Next Page for Comments on Other Donors)

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II. 7. Continued: Comment on key factors determining rating of Other Donors

Colombo Plan countries have provided participant training in hatcheries operation and management during the period FY1967. to 1971. This training has been especially valuable to the Director of the RLG Fish & Wildlife Service and the Chief of the Nong Teng Fish Culture Station.

Japanese Overseas Cooperation Volunteers (OCV) are working with farmers/ the Savannakhet area assisting with pond fish culture and paddy fish culture.

### III. KEY OUTPUT INDICATORS AND TARGETS

A. QUANTITATIVE INDICATORS FOR MAJOR OUTPUTS		TARGETS (Percentage/Rate/Amount)					END OF PROJECT
		CUMULATIVE PRIOR FY	CURRENT FY		FY 73	FY 74	
			TO DATE	TO END			
Tails of fish sold by RLG (number of tails) (Original estimates were not met due to predator problem)	PLANNED	6,300,000	100,000	500,000	1,400,000	2,800,000	2,800,000 annual rate
	ACTUAL PERFORMANCE	2,350,000	104,000				
	REPLANNED						
Market fish sold by RLG (Kilograms of fish) (Original estimates were based on open water culture Production is now limited to pond culture)	PLANNED	105,000	1,000	4,000	6,000	10,000	15,000 annual rate
	ACTUAL PERFORMANCE	6,000	1,350				
	REPLANNED						
Participant training, long term (number of students)	PLANNED	2	1	1	1	1	5 cum
	ACTUAL PERFORMANCE	2	1				
	REPLANNED						
Participant training, short term (number returned)	PLANNED	21	5	5	5	5	36 cum
	ACTUAL PERFORMANCE	21	0				
	REPLANNED						
B. QUALITATIVE INDICATORS FOR MAJOR OUTPUTS		COMMENT:					
1.	Economic management of fish hatcheries.	Production and sale of fingerlings and market fish expanded to extent of demand for fingerlings and to capacity of ponds for market fish.					
2.	Technical management of fish hatcheries.	COMMENT: Technical management of fish hatcheries at L.P Station is being managed by RLG with periodic visits by USAID technician. Pakse and Nong Teng station to become technically able to operate without USAID assistance by end of FY-72 or Mid					
3.	Utilization of adequate fish culture technology by Lao producers.	COMMENT: Bulletins are available and field workers have recently become available to work with farm fish-producers. Gradual improvement of technology will occur over time as more producers are assisted.					

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IV. PROJECT PURPOSE

A. 1. Statement of purpose as currently envisaged.

2. Same as in PROP?  YES  NO

To develop an RLG Fisheries Service capable of producing fingerlings in sufficient quantity to meet fish production requirements (taking into consideration future commercial production of fingerlings) and of providing services to Laos engaged in fish culture.

B. 1. Conditions which will exist when above purpose is achieved.	2. Evidence to date of progress toward these conditions.
Three fish hatcheries operating economically under the management of a permanent Lao staff trained in fingerling and market fish production.	The physical facilities at the three hatcheries are basically complete and under the operation of the RLG; although USAID provides advice and encouragement to improve hatchery operations, the real responsibility has been transferred to the RLG staff.
Professional fish culture services provided by the RLG to Lao producers.	Most of the staff of the RLG Fisheries Service have received short term training in Thailand; two employees are now in degree courses. Advice is now being given to producers.
Fingerlings economically available in quantities to satisfy fish production requirements.	Fingerlings are produced in sufficient quantity to satisfy present requirements; new methods are being developed to satisfy any greatly increased demand, such as hatching eggs from the basic three hatcheries at other locations. This is now done at the Nam Fan demonstration farm.

V. PROGRAMMING GOAL

The PROJECT PURPOSE stated in IV A above will contribute to the PROGRAM GOALS of developing the Lao economy and of alleviating war-caused suffering and disruption by meeting the SECTOR GOALS of self-sufficiency in the production of basic foodstuffs including protein, diversification of agricultural production and food-production assistance to refugees on a priority basis.

B. Will the achievement of the project purpose make a significant contribution to the programming goal, given the magnitude of the national problem? Cite evidence.

Achieving the project purpose will significantly contribute to the program goal as fish is a preferred protein food in the Lao diet and greater production will directly help the Lao economy and reduce imports. Fisheries personnel are giving direct assistance in fish culture to refugee villages throughout the country. See IV-B-2 above for evidence of progress.

## SUMMARY OF PROJECT APPRAISAL REPORT

Country - Laos

Project - Agriculture Development - Fisheries

Project Number - 439-11-190-065\*6

Date of PAR - 11/30/68

U.S. Obligation Span - FY 1966-FY 1971

### Progress

1. Progress has been considered adequate during the past year. (P 1A)
2. Sufficient stock has been produced to meet the production goal of 2.5 million fingerlings per year in three hatcheries. (P 2)
3. The commander of a military camp with technical guidance has constructed a fish hatchery, fingerling culture pond, and fish culture pond. (P 8)

### Problems

1. The solution to problems of low survival rate from sack fry to fingerling stage and of water acidity is being worked on by the contract specialists. (P 1A)
2. Security limits distribution of fingerlings. (P 4)
3. The setting up of an accountability system for sale of fingerlings and market fish and expenditure of revenue is still far from sufficient. (P 5)
4. Lack of qualified participants. (P 7A)
5. Lack of statistical data. (P 8A)
6. Lack of maintenance. (P 8A)

### PAR Recommendations

1. In working with fish culture in Laos it has become evident a coordinating survey by Laos, Thailand, Cambodia and Vietnam is necessary to nationally utilize the fish resources of the Mekong. (P 4)
2. More emphasis on administration is required. (P 9)
3. It would be more economical to construct holding tanks in certain areas rather than distribute directly to the users from the hatcheries. (P 9)

### Lessons Learned

1. Assistance in providing better fishing gear, new boats, training, regulation of fishing, transportation storage, refrigeration and marketing may have provided greater immediate returns and help to the beleaguered Lao economy than placing emphasis on fish culture for which there was little or no tradition among Lao. (P 1B)

### AID/W Follow-up

1. AID/W should encourage research by international groups on the fish resources of the Mekong. (P 4)