



**Bi-annual Project Progress Report
of
Locally Based Coastal Fisheries Management in Pathew district
(LBCFM – PD)**

Compiled by

Sei Etoh



Training Department

Southeast Asian Fisheries Development Center

**TD/RP/70
LBCFM-PD No. 42**

February 2005

Bi-annual Project Progress Report

- Project title** : **Locally Based Coastal Fisheries Management in Pathew District (LBCFM – PD)**
- Program Categories** : Programs under the ASEAN-SEAFDEC FCG Mechanism
- Program Title** : Coastal Resources Management
Resources Enhancement (Special 5-year Program - SDI-4)
- Duration of Project** : 5 years (October 2001 – September 2006)
- Executing Agency** : Department of Fisheries, Ministry of Agriculture and Cooperatives, Thailand
- Cooperating Agency** : SEAFDEC/TD
- Funding Agency** : Japanese Trust Fund (the FCG scheme)
DOF Thailand (Co-financing)
- Proposed Budget** : USD 42,000 (Under Japanese Trust Fund input – year 2004 only)
USD 10,000 (Special 5 year program SDI-4 – year 2004 only)
Baht 15,200,000 (DOF Malaysia Input – for 5 years)
- Reporting period** : **July to December 2004**

TABLE OF CONTENTS

	<u>Page</u>
1. GENERAL ACCOUNT	3
2. ACTIVITIES	4
3. OUTCOMES	10
4. MAJOR CONSTRAINTS	11
5. WORKPLAN FOR THE NEXT REPORTING PERIOD	11
6. REPORTS PREPARED	12

ANNEX

Annex 1 : Annual activity monitoring sheet in 2004	13
Annex 2 : Project progress status report	17
Annex 3 : Travel report – Chumphon (1)	21
Annex 4 : Report on a student training course on coastal fishery Management	23
Annex 5 : Report on a training course in CBRM for young stars	24
Annex 6 : Travel report – Chumphon (2)	25
Annex 7 : Travel report – Chumphon (3)	27
Annex 8 : Report on a Training course in project orientation and phasing-out	29
Annex 9 : Travel report – Chumphon (4)	32
Annex 10 : Minutes of the 2 nd Steering Committee meeting	35

1. GENERAL ACCOUNT

As a whole, the project has progressed on the right track and compatibly with the project design.

This is the transitional period. The first phase of the project (LBCFM-PD) under the auspices of the Japanese Trust Fund I was terminated in December 2004 after 3 years and 2 months operation. In the wake of the termination of the project, the project activities will be continued as the second phase of the project within the component of the Japanese Trust Fund IV which actually started in January 2004 as the project Integrated Costal Resources Management in Pathew District (ICRM-PD).

An out-sourced consultant conducted the mid-term project evaluation..

According to the mini socio-economic survey results, almost all the villagers are quite positive on the project impact given the improvement of women's income level, of voluntary participation to community development work and of awareness building among young generations on the importance of environmental development.

Regular monitoring surveys have been carried out.

The formalization of the aquaculture zoning arrangements remains pending subject to the finalization of the new DOF scheme "Sea Food Bank".

The Crab Bank scheme is promoted with positive fishermen's participation.

Various training courses to introduce new products to the women's groups were conducted. In the future these activities will be taken over by the Fisheries Technological Development Division of the DOF.

A local seminar on the "Orientation of Development on Coastal Fisheries Management" was held.

A local seminar on the "Orientation of Technical Research and Data Analysis" was organized.

The training course in "Project Orientation and Phasing-out Program" was organized for the project and DOF staff.

Student training courses for costal resources management were organized twice.

The project participated in the Pakklong Fair held in November.

Various technical reports were published.

The 2nd Steering Committee was held.

Three Implementation Committee meetings were held during this reporting period.

2. ACTIVITIES

Activities have progressed in line with the Action Plan in general as shown in the Annual Activity Monitoring Sheets in 2004 (to be found in Annex 1) and the degree of achievement for each activity line is described in the Project Progress Status Report of Annex 2.

2.1. Baseline survey

2.1.1. Socio-economic survey

The monitoring survey on squid large cast net and anchovy falling net was conducted between 21st and 23rd September for the purpose of monitoring the socio-economic changes occurring in this sub-sector since April 2002 when the initial survey was conducted. The survey details are described at length in the attached report "Travel Report – Chumphon (2)" in Annex 6. The result is being compiled and will be published soon.

Similarly, the monitoring survey on collapsible crab trap fishing was conducted in September. The data is being analyzed pending publication early in 2005.

The Pakklong Fair was held on 29th – 31st October at the project site. Taking advantage of this occasion, the project conducted a mini-survey by the distribution of questionnaire to sound out the stakeholders' reaction to the project operation. The number of respondents was 70. In summary, 95.7% of the respondents replied that the women's income generally increased compared with that at the beginning of the project, 97.1% replied that more villagers were participating in the environmental development activities voluntarily and 100% agreed that the young generation became more aware of the importance of environmental development.

2.1.2. Oceanographic and environmental surveys

The regular oceanographic and marine environmental survey practices are in effect taken over by MCR and EMDEC and SEAFDEC/TD is no longer involved except for data analysis for the mapping of fishing grounds and fishing gear which will be completed toward the end of 2006.

2.2. Encourage and extend the LBCRM concept

The DOF has launched a new scheme called the "Sea Food Bank" aimed at evenly allocating the potential aquaculture area to individual fish farmers especially for the poorer groups and the survey for potential areas and the demarcation plan was initiated in 2004. In conjunction with this new movement, it was decided that the proposed promulgation of aquaculture demarcation zones in the project area would not be done, as the new government scheme would strategically precede the approach made by the project. It was envisaged that the survey and allocation of the spaces will be finalized toward the end of 2005. Under these circumstances, it is inevitable for the project to rearrange the zoning demarcation depending on the outcome of the Sea Food Bank scheme.

The Marine and Coastal Resources Department, Ministry of Coastal Resources and Environment, has assigned an enforcement officer in Village No.2 of the project operational area to monitor and control illegal fishing encroachment in the 5.4 km (3 n.m.) coastal zone. They have patrol boats equipped with radio communication and the authority to arrest violators. The Ao.Bo.To. envisages the establishment of a local enforcement unit (LEU) and the funds for building an office has been

earmarked although the power of arrest has not been awarded. It was agreed at the Steering Committee meeting held on 14th December 2004 in Chumphon that the Chumphon Fisheries Enforcement Unit (CFEU) of DOF would provide training in MCS practices for the newly recruited LEF staff.

An attempt to introduce enlarged mesh size collapsible crab traps with a 2.5inch mesh size bottom cover net in place of the conventional 1.2 inches has been continued. The fishers involved are now convinced of the effect by observing the positive outcome. The trial was initiated in August 2003 and the average size of crab caught has visibly increased, so the fishers claimed. This tendency has been scientifically demonstrated through the monitoring marine biological survey although the increase is marginal.

The crab bank scheme is progressing except for suffering from theft. It is claimed that numbers of crab are lost everyday. Now the Ao.Bo.To. agreed to finance the construction of a small hut on top of the fish cage that will be used for watching out for thieves by the members working in rotation. CMDEC will provide financial support for this scheme in expanding the scale of operation.

2.3. Encouragement of local businesses

The village development Pakklong Fair was held between 29th and 31st October 2004 at the project site, Village No.1. In this fair, the project was allocated a few booths wherein the project activities were demonstrated and also various products made by the woman's groups were publicly sold. There were a number of events like boat racing and a folksong concert that were arranged by the Ao.Bo.To.

The crab fishermen in the village No. 7 envisage initiating experimental swimming crab culturing in cages. CMDEC will provide some financial support by donating cage-netting material. This scheme will begin in 2005.

Most women's group activities are encountering a stagnancy in marketing as they rely on the layman's approach that simply waits for the customers to come to buy the products. To anticipate expansion of the marketing scale and volume, it was envisaged to establish a central marketing mechanism among the groups. Before the promotion of such a venture, an attentive but simple marketing study by a local private consultant should be carried out to see how such marketing promotion may be achieved.

Village No. 1

The women's activity in this village was once most active, but it has faced business management problems. The featured program in duck farming was closed toward the end of June after having been in operation since May 2003 partly due to the prevailing bird flu epidemic. It is an unfortunate happening. The project expected to develop this business as a first enterprise type venture that challenged the women's group and their failure taught a good lesson to the project on the future course of a rational approach. The project made the effort to investigate the cause of the failure. The major causes can be identified as (1) a lack technical guidance on duck farming, (2) a poor business management plan without a proper financial feasibility study, (3) the lack of a proper accounting system and (4) the unfortunate incidence of prevailing bird flu.

Producing fish-based products has also become inactive as the marketing outlets are limited. More attentive intervention by the Fisheries Technological Development Division (FTDD) of DOF is necessary.

10 group members participated in a training course in processing *yam roll* jointly organized by CMDEC and SEAFDEC/TD on 24th September. The instructors were arranged from Chumphon by CMDEC. It was intended to market the product through schools and bakeries in the Pakklong Sub-district.

Village No. 4

This business group was established in 2001 with the start-up fund of 100,000 Baht provided by the Ao.Bo.To. as a 5-year loan. The fund has been raised to 600,000 Baht by the members' savings since then. The current number of members is 148. The major business is a micro-credit scheme to the members, which has been running soundly. In addition to the loan business, they are earning about 4,000 Baht a month from artificial flower making. They are running the group relatively well without serious problems in management and finance.

Village No. 6

This group was originally organized as a farmers' group in 1949. The main activity in addition to a loan business is the production of natural fertilizer, which was initiated in 2001 with the initial financing of 150,000 Baht provided by the Ao.Bo.To. The women's group was recently re-organized as a sub-group and started batik printing with the participation of 12 members after being trained by the private batik printers in June. In addition, artificial flower making started in November. The total number of members of the business group is 185.

2.4. Enhancing capacity and participation

Seminar on the Orientation of Technical Research and Data Analysis

For the purpose of presenting all research work carried out by the project since its inception, a local seminar entitled "Orientation of Technical Research and Data Analysis" was organized in Bangkok between 17th and 18th August 2004. Through this exercise it was expected to share and exchange the views of the research work made by the project with experts and the audience participating in the seminar also to receive any suggestions for future courses of research work. In this seminar, 10 of the research reports were presented. About 40 scientists, researchers and those who deal with similar project operation in Thailand participated in the seminar. All reports were presented in Thai with English abstracts. There were opinions that some reports were scientifically valuable in the region so that they should be published in English. The detail is described in the seminar report in Thai, which is now published.

Seminar on the Direction of Development of Coastal Fisheries Management

Jointly organized by SEAFDEC/TD and CMDEC on 2nd-3rd September 2004 in Chumphon, the seminar attended by 55 representatives from various organizations concerned with the project activities. They are; DOF Fisheries Bureau (Director), DOF Marine Research Institutes (Head), CMDEC, Provincial DOF Office, Fisheries Association, Chumphon Ao.Bo.Joh. Office, Pakklong Ao.Bo.To Office, DOF Enforcement Division, Fishermen's Network, Village Women's Groups and SEAFDEC/TD. The seminar consisted of two parts; i.e. (1).a review of project progress and the future plans of activity and (2). a workshop on major project activities. In the earlier session, the past project progress and the project frame work were presented by CMDEC and SEAFDEC/TD. While, in the latter session, the participants were divided into two groups; i.e. (1) coastal resources management and (2) local business, and discussions in the form of brain-storming were made with participation at all levels of the beneficiaries. The outcomes of discussion were compiled and presented at a subsequent plenary session for further consideration.

There are many findings in this exercise, which have been incorporated in the formulation of the new project document for phase II. In addition, the consultant presented the essences of the project evaluation results at the final session of the seminar. Further detail is seen in the seminar proceedings in Thai, which are under compilation.

The comments and recommendations raised at the above two seminars were further clarified and discussed thoroughly at the seminar follow-up meeting organized at the CMDEC on 11th October 2004. The representatives attending this meeting were from DOF HQ, CMDEC, MCR, Provincial DOF and SEAFDEC/TD and the roles of each to pursue the goals were distributed to the respective agencies. It was agreed that these proposed activities would be incorporated in the action plans of 2004 and 2005 in the Project Phase II although some needed further clarification.

A Training course in the Project Orientation and Phasing-out Program

This training course was jointly organized on 2nd November for the purpose of training newly recruited or transferred staff of the project related organizations in the orientation of the project. In this course, the background of the project and the phase-out program were explained to the 26 participants from SEAFDEC/TD, CMDEC, MCR, PDOF, AoBoTo and the Fisheries Enforcement Centre. In addition, the project formulation and evaluation methodology in the manner of a participatory approach was demonstrated based upon the exercise of the formulation of the LBCFM-PD (2nd Phase) project document.

Regular village meetings

Every village summons a regular monthly meeting with their members during the first week of each month. The project staff has tried to participate in these meetings as much as they can to collect relevant information and also keep in touch with the villagers. (Ref. to the Travel Report 1 of Annex 3 and Travel Report 2 of Annex 7)

Improvement of surroundings

Tree planting was continued in July 2004 in Village No.6. The 3Km road in the village was planted with trees. A 1.5 Km long road that was planted with 500 trees in June 2003 was made agreeably attractive with blooming flowers. The District Agriculture Office (DAO) provided the nursery trees.

A Student training course

CMDEC and SEAFDEC/TD in Chumphon jointly organized this 3 day-training course in the CBRM approach for the school students in August. 30 students from the local high school participated. The major theme of this course lay in awareness building for the conservation of coastal resources.

Five training courses were held for 5 consecutive days for students from 6 primary schools in the project operational area during July. The main theme of this training course was to provide them with an introduction to the importance of resource conservation and measures necessary. Through these training courses, a total of 125 students were trained. A detailed description is given on these training courses in the report of Annex 4.

2.5. Strengthening extension and developing methodologies

Aimed at filling the communication gap between the project and the beneficiaries in the project site, SEAFDEC/TD recruited a liaison officer in September 2004 with a 1-year contract. She was

stationed in Village No.1 and is expected to communicate with fishermen and other stakeholders frequently and feed back information to the project. It has been shown that a significant improvement in communication between stakeholders and the SEAFDEC/TD and mutual understanding on the project operation has been improved since her assignment.

The CMDEC assigned an extension officer who is expected to stay at the site for two weeks and work at the CMDEC office in Chumphon for two weeks, thus, the field extension mechanism will be further strengthened.

During the Pakklong Fair held on 29th – 31st October 2004 at the project site, the questionnaires were distributed to sound out the stakeholders' reaction to the project. One of interesting comments from the respondents was that the project should assign a field officer (an extension officer) to the site. It is opportune that the project liaison officer was recruited in September, but she needs more close and regular contacts with the stakeholders.

2.6. Rehabilitating coastal resources

1,750 pieces of AR were installed in the project operational area in March 2004 by the DOF, but they were simply shaped in 1.5 x 1.5 x 1.5m cubic form with 5 inch concrete frames. To increase fish inhabitable space in the frames, the SDI-4 program developed the idea of fish shelter devices that might be designed to attract particular types of fish. To test their applicability, 3 different models were developed with SEAFDEC/TD and 30 of each were installed in November in the ARs in such a way to connect them with the frames. A monitoring survey will be carried out in April and July in 2005 to assess their effectiveness.

Aimed at rehabilitating and enhancing coastal resources, a fish seed release program was carried out as follows. This program is financed by CMDEC. The fish seeds were discharged from the pier of Village No. 1.

<u>Date/Species</u>	<u>Swimming crab</u>	<u>Banana Shrimp</u>	<u>Sea Bass</u>
March	20,000pcs	-	-
August	20,000pcs	-	50,000pcs
December	-	1,000,000pcs	-

Under the mangrove tree reforestation program, tree planting was conducted at Villages Nos. 2 and 7 in August and December respectively. 300 nursery trees were planted on each occasion. This program is financed by MCR.

2.7. SC and IC meetings

The Implementation Committee (IC) meeting

After a long interval of almost two years, the 3rd project Implementation Committee (IC) meeting was held on 1st September 2004 in Chumphon with the attendance of representatives from DOF HQs, CMDEC, MCR, Provincial DOF office, Ao.Bo.To, Ao.Bo.Joh, the Fishermen's Association, the Aquaculture Station, DOF Enforcement Div. and SEAFDEC/TD. The Director of the Marine Institute chaired the meeting. The primary agenda was the reporting of current project progress and the action plans for 2005. It was understood that unlike the initial stage of the project, various agencies have become involved in the operation and co-ordination among each agency concerned is inevitable and necessary. Therefore, each agency agreed to prepare their envisaged action plans

for 2005 and to meet again on 15th October 2004. At this table, the representative of the Provincial DOF office also explained the new government policy of the Sea Food Bank.

The 4th IC meeting was held in Chumphon on 12th October 2004, chaired by the Director of the Research and Fisheries Technology Development Institute, DOF. At this meeting, 31 participants were present from DOF/HQ, Provincial DOF Office, the Royal Project, CMDEC, MCR, the District Agricultural Office, Ao.Bo.To., the Chumphon Aquaculture Station, the Chumphon Fisheries Enforcement Unit, the Fishermen Association, the Village Committees, the Head of the Sub-district (Kamnan), Fishermens' Network and SEAFDEC/TD. The major agenda item in this meeting, inter alia, was the presentation of an outline of the proposed project document for phase II that should be thoroughly discussed and endorsed by this committee. The draft proposal was submitted to the meeting and it was agreed after deliberation that the tentative work schedule (TWS) sheet should be distributed to all concerned agencies for confirmation on the implementation of the proposed activities.

The 5th project Implementation Committee meeting was held on 13th December 2004 at CMDEC, Chumphon. The major agenda item in this meeting was to discuss the proposed work plan of 2005 that was presented and explained by SEAFDEC/TD. The deliberations on the detailed work schedule were made among all the agencies involved, especially the designation of implementing agencies and supporting agencies in each activity line.

Steering Committee (SC) meeting

The 2nd project Steering Committee meeting was held at the CMDEC, Chumphon, on 14th December 2004. The major agenda item of this meeting was to endorse the proposed work plans for 2005 that were discussed in detail at the 5th IC meeting. The detailed description of the 2nd SC meeting may be seen in the Minutes of the Meeting in Annex 10.

2.8. Mid-term project evaluation

As planned, an out-sourced consultant carried out the mid-term project evaluation in August/September 2004. A detailed description may be seen in the mid-term project evaluation report. The following are the major findings and recommendations.

- ① Review and awareness building on the optimum utilization of the demarcated zones are necessary.
- ② Both the meetings of the Implementing Committee (IC) and Steering Committee (SR) should be held more regularly to enhance closer coordination among the agencies concerned.
- ③ There is no problem regarding the budget limitation to fulfill the project.
- ④ Appropriate technical inputs to support the fishermen's initiation and requirement by SEAFDEC/TD are needed; e.g. on the crab bank, Babylonia shell culture and cage culture.
- ⑤ The project idea and concept should be disseminated in other areas primarily to protect against illegal fishing from outside.
- ⑥ Fishermen's education on the fisheries laws and regulations is vital.
- ⑦ The monitoring survey for every activity should be continued.
- ⑧ A periodic project progress report should be circulated to all members of the SR and IC meetings to seek support.
- ⑨ CMDEC should report the project progress regularly to the Implementing Committee of the Royal Project.
- ⑩ More in-depth analysis of marine biological survey data like MSY in the demarcated zone is

necessary to advise the people for their management consideration.

- ⑪ Resource enhancement activities like the release of shrimp fingerlings, fish and crab have achieved the targeted numbers.
- ⑫ All project staff of CMDEC are junior scientists who need more training and education to take over the responsibilities of the project operation. SEAFDEC/TD should assume this responsibility.
- ⑬ The Ao.Bo.To. is expected to assume a leading role in coastal resources management in the project framework, but it is obvious that they are not yet capable yet. It is recommended to extend the project period until it has sufficient capacity to take full responsibility, alternatively, some other measures should be taken.

2.9. Others

A local seminar on “Local Community and Development of Coastal Resources Management” was organized on 7th – 8th October 2004 at Mo Koh Chumphon National Park with the participation of representatives of CHARM, CMDEC, MCR, Ao.Bo.To. and SEAFDEC/TD. In this seminar, the experiences of each institution who have been engaged in coastal resources management in the area were presented and views on this subject were exchanged.

3. OUTCOMES

The major outcomes produced from the above activities during this reporting period are:

Baseline survey

- A monitoring survey on squid large cast net and anchovy falling net was completed and report publication is pending.
- A monitoring survey on collapsible crab trap fish was completed and report publication is pending.
- A mini socio-economic survey was conducted at the Pakklong Fair.
- Regular oceanographic and marine environmental surveys have been conducted.

Encourage and extend the LBCRM concept

- The coordination of the establishment of LEU began.
- An attempt at regulating crab trap mesh size has been promoted with tangible results.
- The Crab Bank scheme has progressed.

Encourage local business

- An exhibition of the village products was made at the Pakklong Fair.
- Various training courses in the introduction of new products was conducted in villages Nos.1, 4 and 6.

Enhancing capacity and participation

- A local seminar on the “Orientation of Technical Research and Data Analysis” was organized.
- A local seminar on the “Direction of Development of Coastal Fisheries Management” was organized.
- A Training course in “Project Orientation and the Phasing-out Program” was conducted.
- Two school student training programs were conducted.
- Volunteer work on tree planting was coordinated in the village No.6.

Strengthening extension and developing methodologies

- A project liaison/extension officer was assigned.
- Various reports and PR materials were published.

Rehabilitating coastal resources

- Fish seed release was carried out 3 times in 2004.
- Mangrove reforestation was done twice in 2004.

4. MAJOR CONSTRAINTS

This is not a major constraint but a major challenge. The main shortcoming in this project lies in the non-existence of a core institution or group that is responsible to take charge of CBRM. The Ao.Bo.To. was so designated to be the core group. However, it is proven as time has passed that this expectation has not been realized at all. This is a fundamental issue in deploying the CBRM concept. The project has passed more than a half of its life. But, still the project must tackle the fundamental issues that a core group of fishermen has to be organized. Otherwise, the CBRM concept cannot be effectively introduced to the fishing communities.

When the project was initiated, only a few organizations were involved in the project operation. However, more than ten organizations have since come into the picture of operation. Furthermore, SEAFDEC/TD, which has been the core of the operation, has stepped forward to the stage of phase out and CMDEC and MCR must fill the gap, this sometimes causes confusion.

5. WORKPLANS FOR THE NEXT REPORTING PERIOD

The work plans for each activity line in the next reporting period are as follows.

Base line survey

- Continued regular marine biological surveys
- Continued regular marine environmental surveys
- Continued regular coral and sea-grass surveys

Encouragement of and extending the CBRM concept

- Technical as well as financial support to Crab Bank scheme
- Reorganize the Fishermen's group
- Review the current zoning arrangements
- Establishment of a Local Enforcement Unit (LEU)

Encourage local business

- Identify potential local business and training
- Standardization of products
- Improvement of group management
- Expansion of marketing channels

Enhance human resources capacity building and participation

- Awareness building for fishers on coastal resources management
- Participation in environmental conservation & development work

Rehabilitate and enhance coastal resources

- Releasing fish seed and monitoring surveys
- improvement of the coastal environment

Committee meetings

- IC meeting (January and May)
- SC meeting (January)

6. REPORTS PREPARED

Reports and documents prepared by the project during to this reporting period are listed below.

<u>No.</u>	<u>Title of the report</u>	<u>Name of author(s)</u>	<u>Date of issue</u>
01.	Mid-term Project Evaluation Report	Somsak C.	September 2004
02.	Report on the Duck Farm Project	Sumitra R.	July 2004
03.	Travel Report – Chumphon (1)	Sumitra R.	August 2004
04.	Report on the Student training Course on Coastal Fishery Management	Kongpathai S.	August 2004
05.	Report on the Training Course in CBRM for Young Stars	Kongpathai S.	August 2004
06.	Travel Report – Chumphon (2)	Phattareeya S.	September 2004
07.	Travel Report – Chumphon (3)	Phattareeya S.	October 2004
08.	Report on the Training course in Project Orientation and Phasing-out	Sumitra S.	November 2004
09.	Travel Report – Chumphon (4)	Sumitra S. & Jirapa K.	November 2004
10.	Minutes of the 2 nd Steering Committee meeting	Sumitra S.	December 2004

**Project Progress Status Report
January - December 2004**

As of 31 December 2004 (Rev. II)

Activity	Status % in completion	Accomplishment (January - December 2004)	Remaining activity	Activity in 2005
1.1 Socio-economic				
1.1.1. Mid-plan household mapping survey	0%	Decided to conduct toward the end of the project as no significant changes have been	Action in 2006	Nil
1.1.2. Monitor large cast net and anchovy cast	80%	The survey has been conducted pending compilation and publication	Publication	Publication in early 2005
1.1.3. Monitor collapsible crab trap fisheries management	80%	The survey has been conducted pending compilation and publication	Publication	Publication in early 2005
1.1.4. Monitor role of women's group on fish processing to community development	100%	Close monitoring with women's groups for fish processing have been carried.	Nil	To be taken over by Fisheries Technological Development Division (FTDD)
1.1.5. Monitor development of aquaculture	100%	Monitored Babylonia shell culturing for 8 months	Need more scientific monitoring approach	Repeat experiment with scientific monitoring
1.1.6. Survey socio-economic status of community site	0%	Decided to conduct toward the end of the project as no significant changes have been observed	Action in 2006	Nil
1.1.7. Study people's participation in LBCFM	0%	Decided to conduct toward the end of the project as no significant changes have been	Action in 2006	Nil
1.1.8. Survey anchovy products' distribution and marketing in Champorn City	0%	No progress is made.	Marketing research	Rendering the research work to a local consultant
1.2. Oceanographic and environment				
1.2.1. For monitoring marine environmental changes in Pathew Bay				
1.2.1.1. Monitor survey methodology	100%	In effect, this activity has been transferred to CMDEC and MCR in 2004	Nil	To be continued by MCR & CMDEC
1.2.1.2. Monitor data analysis methodology	100%	- do -	- do -	- do -

Activity	Status (% in completion)	Accomplishment (January - December 2004)	Remaining activity	Activity in 2005
1.2.2. Mapping for fishing ground and fishing gear				
1.2.2.1. Join Chumphon staff in surveying mapping fishing ground and gears	100%	The survey has been carried out as scheduled but compilation of the data will be made toward the end of the project collectively.	Nil	To be continued by MCR & CMDEC
1.2.2.2. Mangrove forest and coral reef mapping survey	100%	Conducted by MCR	Nil	To be continued by MCR
1.2.2.3. Monitor data collection exercises	0%	The MCR and CMDEC staff became convinced of their capability in data analysis and no training in this matter is conducted.	Nil	Nil
1.2.2.4. Data analysis with Chumporn staff	0%	The MCR and CMDEC staff became convinced of their capability in data analysis and no training in this matter is conducted.	Nil	Nil
1.2.3. Landing survey and assessment				
1.2.3.1. Fish landing survey and assessment	100%	Regularly conducted by EMDEC	Nil	To be continued by EMDEC
1.2.3.2. Coral reef and mangrove forest survey (biological)	100%	Regularly conducted by MCR	Nil	To be continued by MCR
2.1. Follow-up aquaculture zone management and proclamation announcement	0%	Awaiting finalization of Sea Food Bank	Revision of zoning arrangement	Revision of zoning arrangement subject to finalization of Sea Food
2.2. Contribute establishment of local enforcement unit (LEU)	10%	Budget to construct the LEU office allocated	Recruitment and training for LEU staff	Recruitment and training for LEU staff
2.3. Strengthen and encourage local people's group participation in CBRM	50%	Motivation for participation to CBRM activity is getting higher	Support to Crab Bank from scientific stance	Support to Crab Bank from scientific stance
3.1. Develop standardization of fish products				
3.1.1. Develop fish products of Women's group village No.1	60%	Training course in processing yam roll	Coordination in management	Intervention in management
3.1.2. Develop fish products of Women's group village No. 4	80%	Monitoring management and operation	Study tour in learning cooperative business	Continue monitoring
3.1.3. Develop fish products of Women's group village No.6	100%	New business, batik printing & artificial flower making started	-	Introduction of new business
3.1.4. Strengthen members' participation in group activities	80%	Increased participation in various activities	Need more close coordination	Continue extension services
3.2. Promote local outlet and market to distribute fish products				
3.2.1 Encourage women's group village No.1 and 4 in cost-return management in processing	20%	Monitoring the outcome of accounting training	Follow-up to training result	Training in simple cost analysis
3.2.2. Establish a central marketing place for fish products	0%	No action has been taken waiting the marketing research	Marketing research	Marketing research

Activity	Status (% in completion)	Accomplishment (January - December 2004)	Remaining activity	Activity in 2005
3.3. Experiment for promoting aquaculture business				
3.3.1. Experimental Babylonia shell culturing	100%	Completion of experiment with negative result	-	Repeat an experiment in more scientific way
4.1. CBRM training course				
4.1.1. Training course on rehabilitation and management of coastal resources	100%	Conducted with participation of 40 fishers in April	-	-
4.1.2. Training course in coastal resource management for school children	100%	Conducted twice in July and August	-	To be repeated
4.2. Develop fish products' distribution and marketing				
4.2.1. Training course in marketing promotion and group working administration	100%	Completed in June	-	To be repeated but in less sophisticated way
4.3. Develop and transfer technology in processing and aquaculture				
4.3.1. Training course on fish processing	50%	Completed with Group No.4 in May	Need similar training in other groups	To be repeated in other groups
4.3.2. Training course on coastal aquaculture	100%	Conducted in April with 7 fish culturists	-	To follow up the application of artificial feeding
4.4. Special training				
4.4.1. Skill developing training course for the project staff in coastal management	100%	Conducted in November	-	To be repeated in other form
4.4.2. Study tour for beneficiaries on fishery resources management	100%	Conducted in April (ref. 4.1.1.)	-	To be repeated in other form
4.4.3. Training in environmental data analysis for CMDEC staff	0%	Cancelled as MCR took over this activity	-	-

Activity	Status (% in completion)	Accomplishment (January - December 2004)	Remaining activity	Activity in 2005
5.1 Extension program				
5.1.1 Manual and brochure for aquaculture area	0%	Pending finalization of zoning arrangement	No progress made	Awaiting finalization of Sea Food Bank
5.1.2. Document publication	100%	Various reports and research works were published	-	To be continued
5.1.3. <i>Handbooks on sustainable technology for environmental survey</i>	0%	Cancelled as MCR took over this activity	-	-
5.1.4. Poster or manual on coastal resource conservation	50%	Manual for Fisheries Law and Regulations applicable to the project area is under	Completion of manual	Completion of manual
5.1.5. Pakklong fair	100%	Active participation to the fair was made	-	-
5.2. Seminar on mid-term project evaluation				
5.2.1. Local Technical seminar on data analysis orientation and assessment	100%	The seminar was held in August.	-	-
5.2.2. Local Seminar on the project implementation and management	100%	The seminar was held in September.	-	-
6.1. Artificial reef installation				
6.1. Artificial reef installation	100%	1,750 ARs were installed in March	-	-
6.2. Fish releasing	100%	3 kinds of fish seeds were discharged in March, August and December	-	To be continued with monitoring survival rate
6.3. Mangrove reforestation	100%	300 pcs. of nursery trees were planted each in August and December.	-	-
6.4. Community environmental development	100%	Tree planting in the village No.6 was carried out along the road of 3Km in July.	-	To be continued in other villages
7.1. Visit Brunei to compile information for assessing feasibility of collaborative project establishment				
7.1. Visit Brunei to compile information for assessing feasibility of collaborative project establishment	0%	Cancelled as Cambodia was selected as the third country to deploy the project.	-	-
7.2. Visit Cambodia to compile information for assessing feasibility of collaborative project establishment				
7.2. Visit Cambodia to compile information for assessing feasibility of collaborative project establishment	100%	The preliminary survey was made in June.	-	To formulate the project

Annex 3

Travel report – Chumporn (1) **(27-28 July 2004)**

Sumitra Ruangsivakul
4th August 2004

The duty trip to Chumphon was made on 27/28 July 2004 to coordinate the joint work with the Fisheries Technology Development Department (FTDD) of DOF Thailand in the component of product development and quality control.

1. Objectives of this official trip:

- To accompany with the team of Fisheries Technology Development Division (FTDD) of DOF that will participate in the project activities of product development
- To see the possibility to diversify fish products being produced by the women's group and acquire the certificate of Good Manufacturing Practices (GMP) issued by the Ministry of Health.

2. Targeted Group: Women's group Moo 1, Moo 4

3. Inspectors: Ms. Warathip Boonyarith and Assistant Fish Technologist, FTDD, DOF

4. Activity and findings

Women's group of Moo 1

Ms. Warathip and her assistance visited women's group no. 1 and collected information on; the group's history, availability of raw materials, selection of products to produce, processing methodologies and investment and processing costs.

Ms. Jeap, assistant of leader's group of women's group no. 1 gave explanation on history, problem of group's management and production. This group was established in 2000, but fish processing activity started in 2002, which activity was supported by DOF and SEAFDEC. They used to produce a lot of products, squid and a lot of kinds of fish available in this area, but at present the group has only one product and the quality of which is not satisfactory and stable, sometimes products are nearly burnt and sometimes too salty.

Ms. Warathip and the members of women's group discussed on the problem on processing products, anchovy in particular. The major problems are high wages of member and high price of raw material, dry anchovy.

Ms. Warathip gave more information on new products for this group, may be get more income for group expecting the business turning profitable. Some new types of equipment should be used to produce new products like thin slices of rice flour crispy with squid. A training course of crispy can be arranged with an instructor from FTDD.

Further, Ms. Warathip gave more explanation on the certificate of GMP. She said that it was not difficult to obtain the GMP but at minimum the processing yard should have facilities of a separate packing room and a store, because a packing room needs to be closed and nobody can pass it through. There are three necessary things for development in this group as follows;

- ① Member should learn group management, not company management
- ② New products should be developed to increase income.
- ③ Anchovy processing should be so developed as to reduce cost and make different recipe different from the one in other markets.

Women's group No. 4

Ms. Warathip and her assistant visited the women's group no. 4. Ms. Ubon, the leader of women's group and her members were producing Pun-seb (snack). The leader explained the history and their activities. There are two products in this group, Pun-seb and Thong-pub. These products are well-known in this area, but the group can not produce to meet the orders, because members have no sufficient time to produce them everyday.

The group's leader said that there is no problem in this group, but Ms. Warathip gave some information saying that if the group has good products and good management, the group can make financial business increased. The Leader said that she and her members expected only gaining a marginal income for their families, because most of members are engaged in rubber plantation and they have only half day for processing activity.

4. Conclusions from the trip

- ① The women's group No. 1 should produce new products, and develop currently produced products by reduction of the cost with new recipe for the marketing channels.
- ② The Women's group No. 1 should arrange a meeting on group management as soon as possible.
- ③ The Women's group No. 4 should continue to produce the present products, but should develop package materials and techniques.
- ④ The project team should arrange training courses in producing crispy products made of squid for women's group no. 1 at the end of August 2004, by an instructor from FTDD, DOF.

Annex 4

Report on The Student training course on Coastal Fishery Management

On 19th-23rd July 2004

Kongpathai Saraphaivanich
4th August 2004

1. Background

A Training course on Coastal Fishery Management was arranged in 6 primary schools in Pakklong sub-district, Pathew district, Chumphon province to impart knowledge and create awareness building in children at the project site. The training course was arranged for 5 days (a day for each school except for one day with 2 combined schools). The participants on each day were 25 students. The total number of participants are 125 students.

2. Objective of this training course

1. To inform of the importance and benefit of coastal fishery resources
2. To give an understanding and introduction to resource conservation to students that are basically the topics of future coastal management issues.

3. Curriculum of the training course

The topic in this training course consists of the importance and benefit of coral reefs, the onshore environment and ecology, coral reef conservation, types of fishing gear, effectiveness of destructive fishing gear, prohibited fishing gear in the LBCRM-PD project area, fishery closed season and the fishery laws.

4. Instructor and training technique

The instructors in this training course were the staff from CMDEC and SEAFDEC. The training technique is on emphasizing the reaction and participation of the students. Firstly the instructors/lectures described the details of the training course by use of a powerpoint presentation. Subsequently the instructors held question and answer games with the participants. The game can check the knowledge that students get from this training course.

5. The schedule of training course

Date	School	Number of participant
19 th July 2004	Numpoo and Thumtong school	25
20 th July 2004	Boosomrong school	25
21 st July 2004	Bangwang school	25
22 nd July 2004	Pakklong school	25
23 rd July 2004	Bonrai school	25

Annex 5

Report on **The Training Course in CBRM for young stars**

on 5th – 6th August 2004

Kongpathai Saraphaivanich
27 August 2004

1. Introduction

The LBCFM-PD project arranged a Coastal Fisheries Management training course for young stars in Pakklong Sub-district, Chumphon province. This course was arranged for 3 days from 4th to 6th August 2004 at Chumphon Marine Fishery Research and Development Center (CMDEC). There were 30 high school students from the project site participated in the course..

2. Objectives

1. To give general knowledge in coastal fisheries management to the young generation of the project site.
2. To increase awareness on conservation in coastal resource.

3. Methodology and training topics

The topics of this training course emphasized general knowledge in coastal fishery management, ecology of the environment, fisheries present situations including general fishery law. The instructors were staff from CMDEC and SEAFDEC. The teaching techniques consisted of lectures in the class, brain storming and a walk rally. In the class lectures, the participants were given the knowledge and the instructor gave time to them for brain storming in the group presentation. In the part of the walk rally, there are 5 bases. In each base, the participants have to use the knowledge gained in the lectures to apply to it.

4. Schedule of training

Date	Topic
5 August 2004	1. Fishery present situation 2. Ecology of sea environment 3. Role of young generation in coastal fishery resource 4. Fishery Law
6 August 2004	Walk rally activities.

Annex 6

Travel Report – Chumphon (2)

on 20-24 September 2004

Phattareeya Suanrattanachai
27th September 2004

Aimed at carrying out the activity of Base Line Survey (Action No. 1.1.2. in the workplan), an official trip to Chumphon was made from 20 to 24 September 2004 by the SEAFDEC/TD staff.

1. Objectives of the official trip:

- To conduct anchovy falling net and large cast net survey at the mid-term of the LBCFM-PD project implementation to accumulate data for the terminal project evaluation.
- To assess current situations, logistics of these two types of fishing gear how they perform to develop fishing community economics.

2. Staff involved in the survey:

1. Ms. Jinda Petchkamnerd	Chumphon Marine Fisheries Research and Development Center (CMDEC)
2. Ms. Sansanee Srijanggam	CMDEC
3. Ms. Jirapa Kamhongsa	CMDEC
4. Dr. Phattareeya Suanrattanachai	SEAFDEC/TD
5. Ms. Sumitra Ruangsivakul	SEAFDEC/TD
6. Ms. Jariya	SEAFDEC/TD
7. Mr. Boonchana Rodthaisong	SEAFDEC/TD
8. Ms. Rattikan Pongjit	On-site project staff

3. Tools and Methodologies employed for the survey:

SEAFDEC/TD and CMDEC staff collaborated to design the questionnaire to collect data from the target group. This questionnaire was already done the pre-test of the questionnaire and justified the format for getting data easily and correctly. Target groups were fishers who used to give information in April 2002. Total numbers of the target group were 52 fishers.

Maps of each village (village no. 1, 3 and 6), which drafted in 2002, were important tools to use in conducting the survey. Eight staffs set day-by-day work plan to collect data and divide into 4 sub-groups to collect 52 questionnaires of three villages. This time also was a good opportunity to train new staffs of SEAFDEC/TD and on-site project site staff to keep communicating with fishers on how to get information from the field.

Each staff had to pay much attention on finalizing the questionnaire that he/she got information from the target fishers. They had to complete the questionnaire day-by-day by finishing calculations and any taken note during interview. This is for inputting data correctly.

4. Results of the conducting survey:

The staffs spent four days to conduct the survey, this is because some fishers was absent from home for fishing and other business, some fishers took a rest after came back from fishing.

Finally, the staff could finish 50 questionnaires and completed the calculation and any taken note. The other 2 target fishers could not get information (see table 1), because one was dead two years ago, and other one immigrated out from the village.

Table 1 Number of respondents

Village No.	Expected no.	Actual no.	Change no.
1	30	28	(-2)
3	11	11	-
6	11	11	-
Total	52	50	

5. Observation from field:

- Target fishers criticized that they faced a problems of high price of fuel oil, so this led to high fishing operation.
- From May to September, they caught very low volume of squid and anchovy.
- Some fisher said that they stopped fishing after May, some fisher stopped fishing for 2 months, because they lost more than gain. Some of them went to rubber or palm plantations, some went with gambling. Some faced a problem of heavy monitoring by patrol boat this caused they had to pay fines big amount of money.

Travel Report – Chumphon (3)

(LBCFM-PD)

on 5th – 8th October 2004

Phattareeya Suanrattanachai

15th October 2004

1. Objectives of this official trip

- To participate in the monthly village meeting at villages nos. 4, 6 and 7 to disseminate the progress of work of the women's group, the farmer's group and other information concerning the LBCFM-PD project.
- To collect information from the villages and use the gained information to justify activities, which are planned for implementation in the next 3 months.

2. Schedule of participation in village meetings

6 October 2004 participated in the monthly village meeting at village no.7

7 October 2004 participated in the monthly village meeting at village no. 6 in the morning session and village no.4 in the afternoon

3. Findings and activity

Village no. 7

The assistant head of the village was the moderator and informed the residents of the news and information that was received information and news from the district office. At the meeting, there were various government agency staff participating in the meeting. An official came from the enforcement unit, which is under the Marine and Coastal Resource Department, Ministry of Coastal Resources and Environment, he explained his job description and his responsibility to the villagers. Mainly his responsibility is monitoring and controlling any illegal fishing operation encroaching in the 5.4km coastal areas. The staff of CMDEC informed the meeting that the center would dispatch a new on-site project staff member as an extension worker. This extension worker will mainly take action to get such information, news, problems and needs from the community. He stays at the office located in village no.1 for 15 days and works at the head office for 15 days. SEAFDEC representative took this opportunity to explain the concept and jurisdiction of the LBCFM-PD project in habitats that the project already covered in the past three years of project implementation. The assistant head of the village recommended to all agency staff that they should give all the information to the village leader or group leaders to avoid confusion and enable to identify that staff and projects are active and implemented in the village.

Village no. 6

The assistant head of village no.6 was the chairman of the meeting. He informed the meeting that farmers who engaged in bird husbandry should watch carefully to avoid bird flu contamination. He invited SEAFDEC representative to present the progress of work of the tree planting which was already done over 2 years. The representative reviewed the progress of the work in tree planting that started in June 2003. Some 500 seed trees were planted for 1.5 km of along the roadside of village no. 6. The success of this activity gave concrete evidence of the outcome in that the planted seed trees have grown up and include the blooming of flowers. The representative also informed the meeting the tree planting continued in July, 2004 over a distance of 3 km on the roadside up to Ban Bonrai Primary School. There was not only the tree

planting activity, but also the women's group activity, which is batik painting of clothes that is very active. This can create job opportunities for women in village no.6 and can also be an additional source of income.

Village no. 4

The chairman of the women's group at village no. 4 requested SEAFDEC/TD and CMDEC project staff to join the village meeting to disseminate information and the progress of work of the women's group to all residents. This is to publicly clarify the role and performance of the group and to probably gain the village's contribution welcome a new member of the group. The SEAFDEC representative reviewed the activities of the group and explained the objectives and importance of each group's activities to the residents like the making of Pan klib curry puffs and rolled crisps. The group members also attended a training course on bookkeeping and accounting management to fundamentally manage the group and to see the group's economic status.

Annex 8

Report on

The training course on Project Orientation and Phasing-out Plan for project counterparts and newly recruited project staff

on 2nd September 2004

at CMDEC, Chumphon

Sumitra Ruangsivakul

11 November 2004

The training course on the LBCFM-PD Project Orientation and Phase-out Plan was conducted at Chumphon Marine Fisheries Research and Development CMDEC on 2nd November 2004. The following is a description of the training course.

1. Objectives of the training course:

- To clarify and report on-going activities and outcomes of the project implementation from the beginning to the present to Chumphon Provincial Officers, SEAFDEC/TD, MCR and CMDEC staff for taking on-duty staff and new recruitment.
- To explain clearly the project activities of phase II
- To guide all counterparts of the project staff on how to formulate action plans based upon community database, information and needs.
- To train all counterparts of the project staff to understand, develop and practice on developing and implementing the project through an extension program and methodologies.

2. Participants:

CMDEC

1. Mr.Pairoh Sutthakorn
2. Ms. Jinda Petchkamnorn
3. Ms. Nopparat Nasuchon
4. Ms. Thitiporn Supaniran
5. Ms. Sansanee Srichanngam
6. Mr. Rojanarut Runagruang
7. Mr. Chumchoke Singharachai
8. Ms.Bang-on Kompee
9. Ms.Wanpen Chumai
10. Mr.Sumit Kaewmun
11. Mr.Somprasong Chansing

MCR

12. Mr. Vuthichai Jenkarn
13. Ms.Sumana Kajonwattanakul
14. Mr.Sittichai Srithong
15. Mr.Praderm Utayanmanee

PDOF (Provincial Fisheries Department Office/DOF)

16. Mr.Thanadol Chankwan
17. Ms. Pachongjit Bunhnon
18. Ms.Wattana Hnunil

CFEU (Chumphon Fisheries Enforcement Unit/DOF)

19. Mr. Preecha

Ao.Bo.To.

20. Mr. Sriroj Kongtala

SEAFDEC/TD

21. Mr.Sei Etoh

22. Dr.Phattareeya Suanrattanachai

23. Ms.Sumitra Ruangsivakul

24. Ms.Jirapa Komhongsa

25. Ms.Jariya Sornkliang

26. Ms.Rattikan Pongjit

3. Agenda:

- 0900-1000 Present the project orientation: policy and framework
(by SEAFDEC/TD)
- 1000-1015 Coffee break
- 1015-1100 Report the outcome of the project phase I (2001-2003)
(by SEAFDEC/TD)
- 1100-1200 Report the progress work of the project plan and its activity in the year 2004 (by
SEAFDEC/TD)
- 1200-1300 Lunch
- 1300-1400 Present the project outline of the phase II (by JICA expert)
- 1400-1500 Give technical orientation on how to formulate and design the project plan and
to implement the project
(by JICA expert)
- 1500-1515 Coffee break
- 1515-1600 Give orientation on how to monitor and evaluate the project design and activity
(by JICA expert)

4. Training contents:

I. Project orientation: Policy and framework

- In 2001, the project was initiated by the 2 agencies, CMDEC (DOF Thailand) and SEAFDEC/TD. Now there are 3 agencies becoming counterparts within the project frame work. They are; MCR, CMDEC and SEAFDEC/TD.
- There are 3 main objectives of the project; i.e. the reduction of problems on the depletion of resources, to formulate fisheries management systems and encourage local business.
- This project began its operation in October 2001 with a tenure of 5 years until the end of 2006.
- The Strategy plan of LBCFM-PD project will be started from local participation to fisheries management with Co-management and the last to decentralization.
- There are six main activities in this project, phase I project focused on a base line survey and training

II. Report of the outcome of the project phase I (2001-2003)

- The result of the base line survey shows the occupation of people at Sub-district, the level of education, the main fishing gear and the fishing seasons.

- The results of an oceanographic and landing survey give indications on sediment in Pathew bay and the status of the environment and aquaculture in the Bay.
- Encourage the CBRM, the demarcated zone and aquaculture zone management shows the local participation.
- Encourage local business, 3 of women's groups have established and produced products to distribute to the neighbouring villages.
- Encourage the use of responsible fishing gear of the fishers groups by changing the mesh size of collapsible crab traps from 1.2 inch to 2.5 inch.
- There are local participants in this project by the crab bank fishers group.

III. Present the project outline of the phase II

- In the beginning of the second phase, SEAFDEC/TD will be phasing out and CMDEC, MCR and Fisheries Provincial will take over the main part of the operation.
- Base line survey activity will be conducted on only particular topics and subjects.
- Encourage and extend the CBRM concept by highlighting the crab bank and re-organizing fishers core groups.
- The aquaculture zoning arrangement must also be reviewed in relation to the new government scheme Sea Food Bank (Coastal Aquaculture Management).
- Embodiment of local enforcement unit, Ao.Bo.To. of Pakklong has been allocated a budget for the office premises.
- Fishery Technological Development Division, DOF, should take part in the women's group activities.

IV. Methodology on how to formulate and design the project and how to evaluate the project implementation

- There are 5 steps on how to formulate and design the project plan; i.e. Participation analysis, Problem analysis, Objective analysis, Project selection and Preparing the project PDM.
- The participation analysis: is to identify the people, groups and organizations who participate or are concerned with the project operation.
- Problem analysis: is to identify the one core problem and to develop a core problem tree.
- Objective analysis: is to identify the most desirable situation once all the problems have been solved and to prepare an objective tree.
- Project selection: to identify project components and selecting a specific project strategy.

Annex 9

Travel Report for Chumphon (4)

on 15th-17th November 2004

Sumitra Ruangsivakul
Jirapa Kamhongsa
19th November 2004

1. Objectives of the trip

- To investigate the organizational status of the fisherman groups in the project area
- To monitor the activities of the Crab Bank
- To monitor the progress on experimental Babylonia shell culturing
- To finalize an agreement on a feasibility study on aquaculture with the KMITL, Chumphon, and get it signed

2. Itinerary

- 15.11.2004 - Leave BKK for Chumphon
- visit Chumphon Fisheries Provincial Office
- discuss the Sea Food Bank with the officer concerned
- visit CMDEC to discuss LBCFM-PD's plan for 2005
- 16.11.2004 - visit the Crab Bank fisher's group
- visit the fisher's group at village no. 7
- visit the women's group at village no. 4 and 6
- 17.11.2004 - to sign an agreement with King Monkul's Institute
- visit the women's group at village no. 1
- Leave Chumphon for BKK

3. Activities and observations

3.1. Sea Food Bank Project

Mr. Suwat and Mr. Tanadol, Fisheries Provincial Officers, who were responsible for Sea Food Bank project gave information on the project. The objectives of this project were to assist poor fish farmers by issuing licenses for the allocation of space for aquaculture. Such fish farmers can get loans from the banks with the licenses as warranty. For the project, five species are permitted within limited quantities and space.

- Sea bass - limit of 7 fish cages and 700 square meter
- grouper - limit of 5 fish cages and 500 square meter
- sea mussel - limit of 10 rai (4 acre)
- cockle - limit of 3 rai (1.2 acre)
- oyster - limited of one rai (0.4 acre)

Eligibility of an applicant

- A fish farmer who has registered with the poverty alleviation project
- A fish farmer who has engaged in fish culturing in this area.
- A fish farmer who is interested in this project.

This project has continued by providing information to fishers and calling for candidates and the navy has carried out the mapping of the aquaculture zone. When the new mapping is completed, the DOF plans to demonstrate it to the communities to make the potential

beneficiaries understand the scheme perfectly. Also, after the completion of registration, the DOF envisages organizing a training course in aquaculture technology with a particular focus on food safety. The budget of this course is estimated at 700,000 baht.

3.2. Crab bank

Mr. Jang explained that this activity had stopped because the monsoon season has set in. The problem in this activity is theft. Mr. Jang said that numbers of crab are lost everyday. He had informed this problem to Kamnan (the leader of Sub-district) and Mr. Payoa, the chairman of the fisher's group network. Now Ao.Bo.To approved the budget for building a small house on the upper of crab bank's cage, for the use of the members of the crab bank's group who would take turns in watching the cage every night. In doing this, it is hoped that the crab cage will be protected from theft.

3.3. Crab culture

This activity will start at the end of February 2005 after the monsoon season is over. The crab culture experiment is supported by CMDEC who provides the materials for cage construction. In the first CMDEC plan, 10 cages with a size of 4 x 4 meters would be constructed. Among these, the crab fisher's group will use 5 cages for experimental work and the other 5 cages will be used by CMDEC for their scientific experiments.

Mr. Jang explained that the size of the cage was changed from 4 x 4 meter size to 4 x 10 meter size. In such a way, he can fabricate only 4 cages. In February when the monsoon finishes, Mr. Jang planned to start culturing in a way that the juvenile crab with a size of 7-8 cm or 37 crabs per Kg equivalent to 27gr per pc will be collected from the fishing ground by the members and stocked in the cage at a density of 1,000 Pcs per cage. After one-month operation, it is expected that the second crop will be put in the cage in the same manner. The duration of stocking is about 3-4 months, and the size will reach the vicinity of 7-8 crabs per Kg.

In the DOF's culture plan, it is envisaged to put into male, female, mixed and matured crabs in a separate cages and compare the growth rate and other factors among them. The crab bank's group is now waiting for materials contributed by DOF, the cage will be fabricated by the fishermen in village at a wage of 400 baht per small cage (4 x 4 meters) and 1,200 Baht per large cages (4 x 10 meters).

3.4. Babylonia shell culturing

On 10th November 2004, CMDEC sold 55 Kg Babylonia shell to the middleman from Trat Province at a price of 300 Baht per Kg. The size was more than 3.00 cm each. Some 44Kg of small Babylonia shells still remained unsold. (The details of the experimental culturing of Babylonia shell will be reported when the experiment is complete.)

3.5. Experimental fish cage culture with artificial feed

Mrs. Rabieb, a fish cage framer at Ko Tiep gave the information that CMDEC had a plan to experiment on culturing sea bass with artificial feed in the cages. The members of the farmer's group will join the experiment with payment of the cost of feeds. The experiment would be made with 9 cages and 3 members; one member will receive 3 cages, the first cage will be used for culturing using artificial feed. The second is for natural feeding with fresh fish and the last cage is for mixed feeding with both (artificial and fresh fish) for comparison purpose. However, the fish farmers have not yet made the final decision, as the experiment is an over burden for them. CMDEC still envisaged to discuss this matter with the potential fish farmers to realize the experiment.

3.6. Fishing Gear Promotion group

The fishing gear group was established in 2001. This group received a loan in the form of fishing materials from the DOF. A member borrows 5,000 baht per contract, which should be repaid within 10 months. The plan of activity was prepared by Mr. Prathung Makyod, the treasurer of group. In line with that, there are three voluntary activities, i.e. mangrove planting, tree planting along the roadside of the village and cleaning the beach. On 5th December (The King's birthday), the fisher's group have a plan for mangrove reforestation around village no. 7.

3.7. Women's group no. 4

This group envisaged to open a cooperative grocery store in their village. The project is ready to assist them in providing a study tour to Prachuap Kirikan or Chumphon Province to inspect the cooperative business operation and management there.

3.8. Women's group no. 6

The activity of this group continues going well, there are many orders from various communities. Now the new business in fabricating artificial flowers commenced for the cremation ceremony in their village.

3.9. Women's group no. 1

The activity of this group is still stagnant. The chairwoman said that the accounting would be reshaped after profit sharing to the members is made at the end of year. On 17th November, 3 staff members of the Fishery Economics Division, DOF, visited the women's group of village no. 1 to: (1) evaluate the accounting system of the group, 2) to study the capacity of the group in accounting and 3) to identify training needs for the group's development. The results of this visit will be reported later.

Annex 10

Minutes of the 2nd Steering Committee Meeting

Locally Based Coastal Fisheries Management in Pathew District,
(LBCFM-PD)

at Chumphon Marine Fisheries Research and Development Center
on 14th December 2004

List of Participants

Department of Fisheries

- | | |
|-----------------------------|--|
| 1. Dr. Poonsub Wirunhakul | Specialist in Fisheries Management, Chairman of Meeting |
| 2. Mr. Rungsan Chayakul | Director, Bureau of Fisheries Research and Technology Development |
| 3. Dr. Mala Supongpan | Director of the Marine Fisheries Research and Technology Development Institute |
| 4. Ms. Arunee Jindanondi | Representative, Bureau of Fisheries Technology Transfer/DOF |
| 5. Mr. Taweep Boonvanich | Head, Researcher of Marine Fisheries Research and Technology Development Institute |
| 6. Mr. Piroh Sutthakorn | Director, CMDEC |
| 7. Ms. Nopparat Nasuchon | Officer, CMDEC |
| 8. Ms. Sunsanee Srichanngam | Officer, CMDEC |
| 9. Mr. Sompasong Chansingha | Officer, CMDEC |
| 10. Mr. Sutthino Limsuratha | Officer, Coastal Aquaculture Station (Chumphon) |
| 11. Mr. Meesakdi Pakdeekong | Director, Chumphon Fisheries Enforcement Unit |
| 12. Mr. Tanadol Chankuan | Officer, Fisheries Provincial |

Marine and Coastal Resource Research Center (MCR)

- | | |
|----------------------------------|---|
| 13. Mr. Wannakiet Thubthimsang | Director, Marine and Coastal Resource Research Institute (Phuket) |
| 14. Ms. Summana Kachonwattanakul | Officer, MCR |

SEAFDEC/TD

- | | |
|-------------------------------|-----------------------------------|
| 15. Mr. Sei Etoh | JICA Expert |
| 16. Dr. Somboon Siriraksophon | Research Division Head |
| 17. Ms. Siriporn Pradit | Section Head, Research Div. |
| 18. Ms. Sumitra Ruangvivakul | Researcher, Research Div. |
| 19. Ms. Jirapa Kamhongsa | Asst. Researcher, Research Div. |
| 20. Ms. Jariya Sornkiung | - do - |
| 21. Ms. Rattikarn Pongjit | Field Liaison / Extension Officer |

SEAFDEC/SEC

- | | |
|--------------------------|---|
| 22. Dr. Worawit Wanchana | Asst. Project Manager to SIDA/SEAFDEC Project |
|--------------------------|---|

Content of Meeting

The meeting started with an opening address by Dr. Poosub.

1. Dr. Mala informed the meeting that an Indonesian group visited the project site on 8th December 2004 and particularly inspected the crab bank activities and the women's group activities.
2. Dr. Mala presented the background and progress made during the 1st phase of LBCFM-PD from 2002-2004. The project was initiated in the manner of mutual collaboration between the two agencies, i.e. DOF and SEAFDEC/TD. In 2001, DOF and SEAFDEC conducted the joint preliminary survey prior to setting up the project in 2001.
3. There are 6 activities in the framework of the project. These are a base line survey, the establishment of a workable LBCFM system in the project operational area, encouraging local business, enhancing human resource capabilities and participation, developing extension methodologies and rehabilitating and enhancing coastal resources. This project has been releasing fish, crab and shrimp fry a few times a year. The duration of this project is 5 years and in accordance with the project design, the mid-term evaluation was conducted in August 2004. The 2nd phase will begin early in 2005, and the tentative plan of 2005 was thoroughly discussed at the IC meeting on 13th December 2004. Further this plan will be submitted to the SC meeting.
4. The DOF has disbursed 1.9 million Baht per year to support this project activity, while SEAFDEC has contributed about US\$42,000 in 2004 from the Japanese Trust Fund.
5. Monitoring activities of this phase were made at the technical seminar held in September 2004.
6. Dr. Mala expressed her concern that although SEAFDEC managed the project by themselves at a rate of contribution of almost 100%. However, this tendency should ideally be reduced step by step and the ratio of involvement by the local agency like Ao.Bo.To and the fishermen's group should be increased. However, it is the fact that the local agencies have not taken over any activities yet, even though the mid-term of the project tenure has passed. This seriously affects the project sustainability and it should be rectified in the second phase.
8. The working plan in 2005 was explained by Mr. Etoh. The main lines of activity are as follows;
 - The Crab Bank's group activity will be further supported technically and financially
 - The Fisher's groups will be re-organized. This is the most urgent work to be carried out.
 - The effectiveness and practicality of the current zoning arrangement will be reviewed.
 - Development of the aquaculture zoning arrangement should be looked into in relation to the DOF's Safe Food Bank.
 - A Local Enforcement Unit will be established at the project site.
 - As to encouragement of local business, more development by expanding marketing channels will be focused upon. This activity will be arranged by the agency concerned, i.e. the Fisheries Technological Development Division of DOF.
 - An attempt to introduce pellet feeding to the fish farmers should be made. The Aquaculture group supported by EMDEC and SEAFDEC will implement this experiment in the 2nd Phase.

- Looking into the significance of capacity building for the local agencies and stakeholders, training courses, practical workshops and study trips will be arranged as required.
 - Rehabilitation of fish resources by the installation of ARs and releasing fish seed will be continued together with the introduction of a scientific monitoring system.
 - The working plan for 2006 will be made toward the end of 2005, but it should be flexible in reflecting the achievement of the activities in the 2005 plan at the end of the year.
9. Dr. Kungwan commented that;
- The main output of this project is that the local community becomes able to manage coastal resource by themselves at the end of this project, in this sense the intense capacity building activity for Ao.Bo.To is also necessary in addition to the creation and strengthening of the fishermen's groups.
 - In the plan, it is envisaged to re-organize the fisher's group to be similar to fishermen's cooperatives. It is expected that the new fishery law is to be promulgated soon and the formation of the fishermen's cooperatives should be pending until that time comes.
10. Mr. Taweeb commented that according to the work plan of 2005, the workload of CMDEC seems to be too heavy and should be reduced to some extent and it is suggested to share with the MCR. Mr. Pairoh, director of CMDEC, mentioned that that he is convinced of the capacity of CMDEC, which could manage such a work load, however still sharing the workload with the MCR in the activity of the monitoring marine survey.
11. Mr. Rungsan gave the information:
- To establish a local enforcement unit (LEU), PDOF(Fisheries Provincial) will support CFEU(Chumphon Fisheries Enforcement Unit) in training LEU
 - Bamboo sticks should not be used for FADs by PDOF because of its short life and relatively high cost. Mr. Thanadol (PDOF) responded that the FADs were used for aggregating and conserving small mackerel and its required duration was also short.
12. Dr. Kungwan commented that since the project's main objectives lay in CBRM, the project should put more emphasis on;
- DOF and fishermen must discuss more directly the various issues to identify the problems encountered and solutions before planning the activity.
 - The Crab Bank group may be implemented by the local community and DOF and SEAFDEC should support it financially as well as technically.
 - As to the issue of zoning management, Ao.Bo.To. should be given more training.
 - In the encouragement of local business activity, the community should take their initiative in product development and DOF should support their motivation.
 - In environmental activities, Ao.Bo.To. and the community should lead the program.
13. Mr. Etoh stated that the project has been operational for the last 3 years but it is proved now that Ao.Bo.To. could not play their expected role as the core of CBRM. Given that fact, the project must undertake the task to reorganize an alternative core group, e.g. fisher's groups, to assume the responsibility of coastal resources management.
14. Dr. Poosub stated that the marketing channel of product for the women's group would be in collaboration with the Industrial Province.
15. Mr. Rungsan gave more comments on the Implementing Agency that because one activity involved many implementation agencies, it was not clear who is the main agency. Dr. Mala replied that all agencies had to maintain close communication and work in a harmonized manner.
16. Mr. Taweeb stated that the marketing development for the channel of women's group products should be made by the agency responsible. Dr. Mala said that, now FTDD has

- just come the 1st IC meeting, FTDD would be responsible and coordinate among other related agencies.
17. Mr. Taweeb asked the meeting why this project tried to introduce Babylonia shell culture to the community. Mr. Pairoh replied that this area meets the requirements for Babylonia shell culturing and the prevailing market price is high. DOF have experimented on Babylonia shell culturing in this year but failed. Mr. Etoh stated that the project should not abandon the program after failing the attempt only once. SEAFDEC would continue this experiment.
 18. Mr. Etoh further stated why SEAFDEC would like to continue this experiment; because the last experiment was done for a short time and cannot produce reasonable outputs. It should be continued because the fishermen in the project site showed a keen interest in this culturing.
 19. Mr. Rungsun: From the work plan of 2005, CMDEC have a student training program and also CFEU have a similar student training program using the CHRAM's budget. These two components should be merged together.
 20. Mr. Rungsan posed a question on how to monitor crab trap fishing intensity, as the duration of monitoring was set for September to October only. Ms. Sansanee (CMDEC) replied that the catch data collection had been done regularly every month and the accumulated data is compiled and analyzed in September and October.
 21. Dr. Poonsub: Why not support the women's group by a study trip to the OTOP festival in Thailand and others. Mr. Etoh and Ms. Sumitra gave more information on this issue saying that at the beginning of the project, the women's group visited the many other successful women's groups and many festival fairs on fish processing and OTOP in Bangkok including a packaging fair. Also, the leader of women's group visited the Langkawi site to introduce the group's activity.
 22. Dr. Kungwan: made more comments on;
 - Fisheries Cooperatives generally do not work in Thailand, because there is only one law to support their activity. But in Japan, there are many laws to protect.
 - The SC meeting should be held twice per year as this meeting discussed the working plan for the next year. Mr. Etoh replied that only once is enough, because the SC meeting is held at the end of year in which a review of the work done in that year is made and the work plan for the next year would be discussed at the same venue.
 23. Mr. Pairoh gave more information on CMDEC's activity to the meeting that,
 - Pathew Project has a special activity in the crab bank. the project and Ao.Bo.To will support it financially and technically.
 - Another activity is experimental crab culturing. CMDEC will collaborate with the local community to carry out this work jointly with SEAFDEC/TD
 24. Dr. Poonsub: The local community may be the main implementing agency in this attempt and CMDEC and SEAFDEC are the supporting agencies.
 25. Mr. Pairoh gave more information on the crab bank that:
 - The monitoring survey on crab traps and data of the crab bank will be analyzed by CMDEC. The data of the community on crab is that; one crab can release 1,000 eggs, of which 200-300 crab can survive after one month of culturing. CMDEC will collaborate with the local community to monitor this activity.
 26. Mr. Etoh: Commended the initiative for the crab bank taken by the fishermen themselves and SEAFDEC would support their activity technically specially inviting a Japanese expert on crab culturing.
 27. Dr. Mala gave more information on the crab bank that: a crab bank scheme is getting popular in Thailand, because this activity will be the first step in participation by community.

28. Mr. Tawee: He posed a question on how to manage the DOF budget, which was approved for the next year (2005). Mr. Pairoh replied that MCR and PDOF agreed that the cost of fuel necessary for data collection will be disbursed by the Enforcement Unit.
29. Dr. Kungwan: FADs constructed with the material of bamboo will be put in the MPA (Marine Park Area) and that area should be declared as the MPA. Dr. Mala said that one of the project objectives of this project is coastal resources enhancement. If this experiment would be successful, this activity should be continued. Mr. Pairoh said that the FADs were not stable and may be changed to a set net. Dr. Somboon gave more information that this experiment will be implemented by the Resource Enhancement Project (SEAFDEC)
30. Mr. Tawee: The budget is not clear as each activity doesn't show the amount of budget. In 2006, the budget will be limited and move to the Province, because in the next strategy plan 2006, the budget will be distributed at the Province level.

The meeting closed at 12.30

Compiled by Sumitra Ruangsivakul
29th December 2004

Endorsed by Sei Etoh
5th January 2005

Minutes of 2nd Steering Committee.DOC

