

Biannual Project Progress Report

- Project title** : **Integrated Coastal Resources Management in Pulau Langkawi (ICRM – PL)**
- Program Categories** : Programs under the ASEAN-SEAFDEC FCG Mechanism
- Program Title** : Capacity Building of Human Resources and Participation in Integrated Coastal Resources Management
- Duration of Project** : 1st Phase: 17 months (August 2003 – December 2004 under TF-1)
2nd Phase: 36 months (January 2005 – December 2007 under TF - 4)
- Executing Agency** : The Department of Fisheries, Ministry of Agriculture, Malaysia
- Collaborating Agency** : SEAFDEC/TD
- Funding Agency** : The Japanese Trust Fund (FCG Scheme and Special 5-year Program)
DOF Malaysia (Co-financing)
The Grassroots Tsunami Relief Fund
- Proposed Budget** : USD 25,523 (Under Japanese Trust Fund 4 - 2007 only)
USD 55,706 (Under Japanese Grassroots Tsunami Relief Fund)
USD ? (DOF Malaysia Input)
- Reporting period** : **July to December 2007**

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TABLE OF CONTENTS

	<u>Page</u>
1. GENERAL ACCOUNT	3
2. ACTIVITIES	3
3. OUTCOME	12
4. MAJOR CONSTRAINTS	13
5. WORKPLAN FOR THE NEXT REPORTING PERIOD	13
6. REPORTS PREPARED	14

ANNEX

Annex 1 : Annual Activity Monitoring Sheet	15
Annex 2 : Travel Report to Langkawi, Malaysia, on 3-6 September	17
Annex 3 : Report on FEDs' Monitoring in Kuala Teriang, Langkawi	20
Annex 4 : Artificial Reefs installed by DOF Malaysia	23
Annex 5 : Minutes of the 9 th ICC Meeting	24
Annex 6 : Minutes of the 10 th ICC meeting	28

1. GENERAL ACCOUNT

The direct involvement of SEAFDEC/TD in the project operation was terminated in December 2007.

This is the final stage of the project implementation, and probably with the uncertainty for possible continuation in the future, it seems that the project activity pace has been slowing down.

Most facilities built under the auspices of the Japanese Grassroots Tsunami Fund have been completed and are expected to be used in full swing in the coming year.

The report on Marine Resources Monitoring Survey in 2004 – 2006 was published.

The data collection and marine resources survey activities have been taken over by FRI, Penang.

The promulgation of the Fishery Resources Management Plan has been dragging.

The state's policy, in a bid to reduce the number of trawlers, has been put in place.

The Local Enforcement Unit was established but the rampant invasion of trawlers persisted with more intensity during this reporting period.

The crab bank scheme has commenced.

The women's group activity has been vitally progressing.

The Fisher's Workshop for disseminating information on the newly established LEU was conducted in Kuala Teriang.

The 10 sets of FEDs installed in April 2007 were all removed most suspiciously by some trawlers.

The 16 units of ARs were installed by the DOF.

The 9th and 10th Project Implementation Coordination Committee meetings were convened.

2. ACTIVITIES

The progress of the project activity can be monitored in line with the planned work schedule as shown in the annual activity monitoring sheet in Annex 1.

2.1. Monitoring survey

Fish landing survey

The daily exercise of collecting fish landing data has been continued by the designated enumerators. The completed data sheets were sent monthly to FRI, Penang for analysis. The

remuneration for the enumerators was paid by SEAFDEC until December 2007.

The fish landing data obtained from 2004 to 2006 were compiled and the report on “Marine Resources Monitoring in Pulau Langkawi, Malaysia (2004-2006)” was published in September 2007.

Marine resources survey

It was agreed that the marine biological survey should be conducted by FRI regularly every two months from April 2007 and since then the survey was expected to take place regularly. SEAFDEC/TD was supposed to join the survey once every 4 months. The transition of the responsibility from SEAFDEC/TD to FRI in the data collection and marine resources survey was expected to be attained under such arrangement. However due to the financial constraints, the marine resources surveys were actually conducted by FRI three times only; in March, June and September.

The collected data from August 2005 to July 2006 together with the data from 2004 were analyzed and the results were compiled by SEAFDEC/TD. The report, which was published in September 2007 summarized that the parameters for the CPUE showed in general, signs of over-fishing while on the other hand, the parameter for length distribution showed the opposite trend. As such, although no definite consistency was observed in reducing fishery resources, there was still sign of over-fishing. In a bid to obtain more accurate and consistent data, the fish landing data collection exercise and the marine biological surveys should be continued with more frequency. Moreover, the analyzed data also suggested the need to exert more intensive efforts in fishery resources management.

Specific topic survey – FED impact survey

The impact survey on the FEDs which were installed in April was conducted on 4-5 September. However, since no sign of FEDs was observed, there was a growing suspicion that all sets of FEDs installed in April had been removed rampantly by the invading trawlers. Therefore, no impact survey could be carried out inevitably.

2.2. Encourage and extend the CBRM concept

CBRM approach

After the stakeholders’ consultation in November 2006 in Alor Setar, the advance draft of the Fishery Resources Management Plan (FRMP) was submitted to DOF for consideration and refinements on the legal context by legal advisors. A long time was spent for the scrutiny process and on the repeated internal discussions among relevant offices in DOF Malaysia. In the meantime, the name of the core body was changed from the Fishermen Economic Group (KEN) to the Fishery Resources Management Community (KPSP) with endowed responsibility and function to take care of the community-based fishery resources management. It is expected that the FRMP would be promulgated early next year.

It was believed in the previous reporting period that encroachment of illegal fishing boats, especially trawlers, had been greatly reduced due to the newly established Local Enforcement Center (LEC) in Kuala Teriang. This fact was reported at the 5th SC meeting as well. However, as explained later, the invasion has become rampant when the monsoon seasons set in, this time

using a new type of high-opening mouth trawl net (*pukat boya*). The fishermen claimed that the trawlers operate in the day time while the enforcement officers are on duty from 4 PM to 8 AM at the LEC therefore no report on such illegal fishing could be made. But this could not be a reason because those who observe the trawlers' invasion can directly report by mobile phones to the Marine Enforcement Office in Langkawi which is located 15 km from Kuala Teriang. The invasion of trawlers has become the most critical problem for the newly formed KPSP which should be imminently solved. It seems that the lack of recognition among fishermen on destructive fishing gear by trawling and on their possible urgent expulsion from the coastal fishing zone, have been responsible for such rampage of trawlers.

In a bid to minimize fishing efforts especially in trawl fishing, the Kedah State initiated in January 2007 a negotiation with the Fishermen's Association in Kedah State to abolish the trawlers otherwise to move their operational zone from the current Zone "B"¹ to Zone "C". As a result of the repeated negotiations among 400 trawler owners existing in the State on such options, 40 agreed to abolish their fishing boats by the end of November 2007. The State has compensated RM 1 million for such reduction of fishing effort. The abolished fishing boats are to be sunk as ARs in the area. It is expected that this new policy in reducing the number of trawlers and in thrusting trawlers away from the Zone "B" to "C" would certainly affect the effort to curb the encroachment of trawlers in Zone "A". The entire area of the project fishery management zone is within Zone "A".

The fishermen expressed their views on many occasions that the volume of fish landing especially the black pomfret had obviously increased since the previous year without any justifiable reason.

Local Enforcement Unit (LEU)

The Marine Enforcement Agency (MEA) assigned two Enforcement Officers to the project site in Kuala Teriang from 4.00PM to 08.00AM in September 2006. They were on stand by to monitor any incoming information on invasion of illegal fishing boats. In the previous reporting period, the project was informed that the trawlers' encroachment had been noticeably decreased due to the initiation of the existence of the LEU. However, after the monsoon sets in sometime in July many trawlers started to operate in the coastal fishing zone (within 5 miles), especially during the daytime. In fact, it was even observed by the SEAFDEC/TD and FRI staff during the marine oceanographic survey conducted on 5 September 2007 that 7 trawlers were illegally operating near the shore, some were even trawling as close as 2 km from the shore. Strange enough, the fishermen on-board a fishing boat used for the survey did not take any action of informing the Enforcement Officer by mobile phones.

In a bid to reinforce the local enforcement activity, the KEN (KPSP) established a committee called the Local Enforcement Committee (LEC) within their organization on 12 March 2007. The first committee meeting decided to establish the Local Enforcement Center (LEC) and also to put forward a proposal for the DOF to provide a patrol boat to strengthen their MCS function. Responding to such request, the Marine Enforcement Agency (MEA) decided to station a small

¹ Zone A: from the shore to 5 n.m.
Zone B: from 5 to 12 n.m.
Zone C – 1: from 12 n.m. to 30 n.m.
Zone C – 2: from 30 – 200 n.m.

patrol boat at the LEC Kuala Teriang in 2008. In relation to this, the DOF also decided to donate necessary equipment such as binoculars, walkie-talkies, etc.

Crab Bank

The Crab Bank was established and the relevant training was conducted on 13 June 2007 to learn the Japanese model, i.e. gravid crabs are released to the water after being marked with a special white pen on their carapaces and the data recorded. Since then, the activity of releasing gravid crabs has been carried out. So far a number of swimming crabs has been released to the sea. It is expected to have the impact of this activity evaluated in June 2008 after one year operation.



Fig 1: Sign board for crab bank

The signboard describing the scope of the crab bank activity was put up in front of the fishing jetty in July to disseminate the intention of the crab bank to the public and 70 T-shirts were distributed to the members in September for the public relations purposes.

2.3. Encourage local businesses

Women's group activity

A proposal to establish a women's network in Langkawi was included in the project action plan in 2007 which aimed to provide the women's groups in Langkawi with opportunities of mutually exchanging views and experiences in group activities like product development and community voluntary works. However, the 9th ICC Meeting was of the view that the current women's activity status in Langkawi was not mature enough to organize such a network thus, the proposed activity was postponed for the time being.

Aimed at diversifying production lines of the KEW, the DOF donated a Maruku forming and cooking machine costing about RM 19,000 under their own Tsunami Fund. In addition, various fish processing machineries like continuous sealing machine, cooking oven, dryer, and labeling machine costing about RM 50,000 were purchased by the DOF for equipping the newly completed fish processing yard in September. This processing yard is expected to be operational in early 2008.

The simplified two ledger books, i.e. "Monthly Material Procurement Record" and "Monthly Production and Sales Record", which were modified into "a user-friendly version", were introduced to the KEW in April 2007. Since then, records on the output products, purchasing materials and sales of products have been clearly and precisely entered. Also, monthly stock inventory by physical verification was conducted. The bookkeeping and accounting practices have been closely monitored by the DOF Extension Officer and the SEAFDEC team periodically. When it was necessary to make rectification or correction of the entries in the books, spot trainings were conducted by the SEAFDEC staff.

The monthly production of their products like the Ikan Bilis and Maruku, and the monthly transaction in 2007 (until November) are shown in Tables 1 and 2, respectively.

Table 1: Summary –Production and sales in 2007 (Until November)

Month	Ikan Bilis (in Packet)					Maruku (in Packet)				
	Stock	Product	Sales	Sample	Discard	Stock	Product	Sales	Sample	Discard
January	-	512	206			-				
February	-	882	409			-				
March	-	909	228			-	374			
April	370	1,129	1,012	30	120	133	0	88	20	25
May	337	416	269	64	80	0	16	0	8	0
June	340	483	448	56	30	8	12	5	7	0
July	289	572	598	29	2	8	98	56	5	24
August	232	777	676	40	0	21	6	0	0	7
September	293	250	413	14	0	20	68	77	4	0
October	116	936	908	12	0	7	97	58	9	16
November	132	764	530	12	0	21	15	18	2	0
December	354					16				
Total		7,630	5,697	257	232		686	302	55	72
End stock										

Note 1: No record on Sample and Discard before April is available.

Note 2: The sales amount of 228 packets in March is mixed with Ikan Bilis and Maruku and can not be separ

Note 3: On September and November sale by credit (anchovy 519 packs Maruku 8 packs)

Table2: Monthly transaction by Women’s Group in 2007

Monthly transaction by KEW in 2007

(in RM)

Month	B/F	Credit		Debit				Gross income	Net income	Balance
		Sales	Others	Production cost	Share for attendance	Transfer to S.Account	Other			
January	2,825.60	890.00	0.00	403.90	400.00	250.00	0.00	486.10	-163.90	2,661.70
February	2,661.70	1,513.00	0.00	288.10	400.00	250.00	0.00	1,224.90	574.90	3,236.60
March	3,236.60	984.50	0.00	691.20	0.00	250.00	0.00	293.30	43.30	3,279.90
April	3,279.90	3,182.00	0.00	911.00	0.00	0.00	0.00	2,271.00	2,271.00	5,550.90
May	5,550.90	803.50	0.00	365.90	0.00	0.00	0.00	437.60	437.60	5,988.50
June	5,988.50	1,369.50	0.00	944.60	0.00	0.00	0.00	424.90	424.90	6,413.40
July	6,413.40	1,979.00	0.00	391.15	2,773.00	600.00	0.00	1,587.85	-1,785.15	4,628.25
August	4,628.25	2,028.00	0.00	951.95	0.00	350.00	0.00	1,076.05	726.05	5,354.30
September	5,354.30	776.00	0.00	279.00	0.00	0.00	0.00	497.00	497.00	5,851.30
October	5,851.30	2,917.50	0.00	820.30	0.00	0.00	0.00	2,097.20	2,097.20	7,948.50
November	7,948.50	797.50	0.00	1,436.60	2,000.00	0.00	0.00	-639.10	-2,639.10	5,309.40
December	5,309.40									
Total		17,240.50	0.00	7,483.70	5,573.00	1,700.00	0.00	9,756.80	2,483.80	

As seen in the above tables, a total of 7,630 packets of Ikan Bilis (dry and seasoned anchovy) were produced in 11 months in 2007, a 58.2% increase compared with the production in 2006 as shown in Table 3. Also, the gross income increased from a deficit of RM 353 to a surplus of RM 4,184 on top of the increased share distributed among the 6 active members of RM 4,301 in 2007. The final total cash balance at the end of November 2007 was RM 7,009 an increase of RM 3,183 compared with the cash balance in 2006. Another noticeable improvement lies in the relative amount of production cost. The rate of production cost against sales has been reduced tremendously from 91.1% to 43.4% in 2006 and 2007, respectively. Judging from the financial outcome as such, the business transaction in the production of Ikan Bilis and Maruku has been improved to a great extent. The detailed financial analysis for the transaction in 2007 will be prepared in early 2008 after completion of the entry for December.

Table 3: Comparison of transactions in 2005, 2006 and 2007
(in RM)

Year	Sales	Expenditure	Shares distributed	Gross income	End balance	Transferred to Saving Acct.
2005 (10 months)	12,923	6,609	3,590	2,724	3,149	0
2006 (12 months)	10,901	9,982	1,272	-353	2,826	1,000
2007 (11 months)	17,241	7,484	5,573	4,184	5,309	1,700
(Increase compared with 2006 in %)	58.2	-25.0	338.1	1,285.3	87.9	70.0

The construction of a new fish processing yard was completed in early December 2007 with the installation of electric wirings and water piping by the contractor. The official commissioning of the yard is expected to take place in early 2008.

The KPSP is negotiating with the Anchovy Consortium in Langkawi for the processing anchovy products on consignment basis for export to neighboring countries. The production will commence after the commissioning of the new fish processing yard by KEW.

Sales outlet

The KPSP continued to sell block ice and lubrication oil to their members at their premises. The fuel oil is supplied at the subsidized rate by the Fishermen Association.

Mechanical workshop

The electricity and water supply to the newly built mechanical workshop were eventually completed in August and the premises was leased out to a KPSP member for him to operate on the contract basis paying 10% commission on income on top of the monthly rental fee of RM1,500.

The DOF contributed RM 14,140 to KPSP to procure the necessary engine repair tools.

Construction of building under the Tsunami Fund

All construction works under the Tsunami Fund were completed. The detailed expenditure is shown below:

<u>Item</u>	<u>Amount (RM)</u>
1. Engine workshop	70,000
2. Fish processing yard	75,000
3. Ice maker	25,000
4. Muruku maker	19,000
5. Freezer for storing ice	10,000
Total:	199,000

Auditing by the Japanese Embassy for these constructions was conducted on 15th November 2007.

2.4. Enhance human resources capacity building and participation

Institutional capacity building of KEN

The name KEN (Fishermen Economic Group) was changed to KPSP (Kumpulan Pengurusan Sumber Perikanan – *Fishery Resources Management Community*) which was formed and became functional from 1 July 2007 in Kuala Teriang. The KPSP, which took over all functions and roles of the current KEN, has more appropriately expressed the implication of the activity and the aim of the group than the KEN that was meant to pursue economic activities only. There are 4 KPSPs organized in Pulau Langkawi, i.e. Kuala Terianag, Kuala Chenang, Kilim and Kubang Badak.

Fishermen's workshop

Aimed at disseminating the establishment of LEC in Kuala Teriang and its function to the neighboring fishing communities, a fishermen's workshop was conducted on 5 September. In this workshop, 32 participants including representatives from Kuala Cheneng and Kilim participated. As seen in Annex 2: Travel Report to Langkawi on 3 – 6 September 2007, the background of the formulation of the Fishery Resources Management Plan (FRMP) within the zoning arrangement was addressed by the Project Leader while the facilities and functions of LEC was explained by the Deputy Director of DOF Kedah to the stakeholders including those from neighboring villages.

Also, taking advantage of this occasion, 2 sets of GPS and echo-sounders amounting to RM 7,860 were donated by DOF to 3 KPSPs in Kuala Teriang, Kuala Chenang and Kilim.

Extension and PR materials

The signboard for the Crab Bank was put up upon the commencement of the scheme in June 2007 at the KPSP premises.

2.5. Fishing gear technology improvement

Unlike in Thailand, squid fishing with the use of light was banned in Malaysia until 2006. This ban was lifted in 2007 although the power used for lighting was limited. Since then, most squid fishing boats turned to scoop fishing with light luring. This drastic change in fishing effort would certainly affect the squid resources in the area and an attentive monitoring effort for the resource dynamics would be vital.

2.6. Rehabilitate and enhance coastal resources

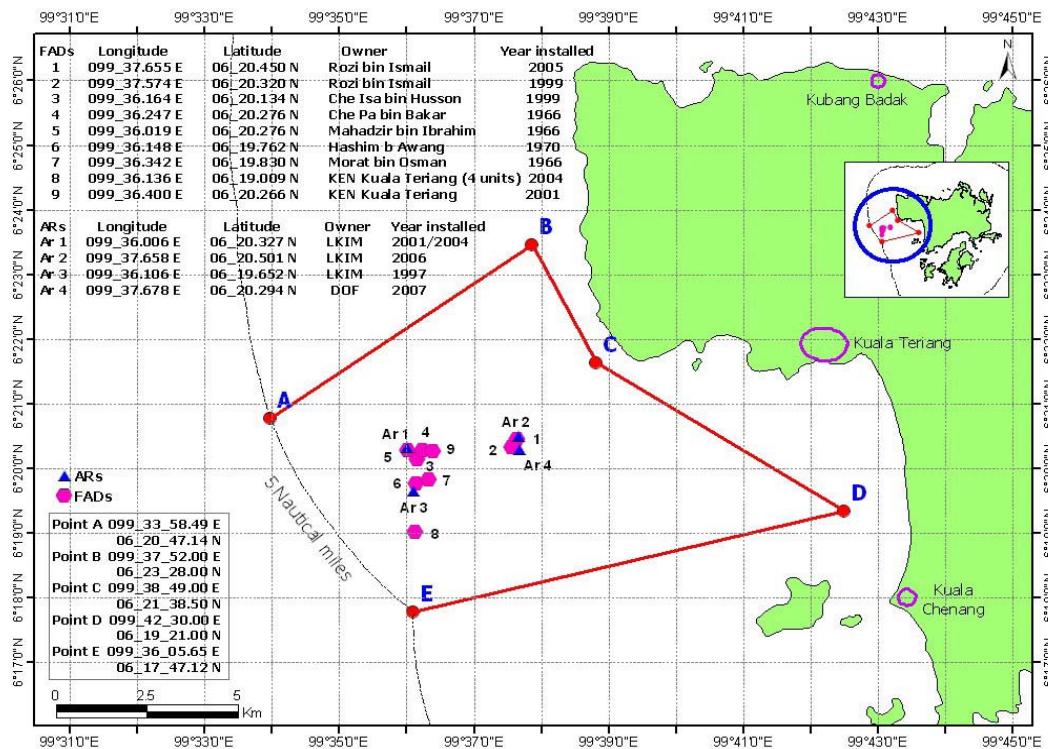
ARs/FEDs

Ten sets of FEDs were installed in April 2007 after convincing the authorities that trawlers' invasion of the coastal fishing zone had been controlled. However, when the impact survey on the installed FEDs was carried out on 4-5 September, it was disclosed that the installed FEDs were removed by trawlers. It is now obvious that no FEDs should be installed until the problem on encroachment by trawlers is controlled by LEU otherwise these should be installed in positions just adjacent to the ARs. A fact was disclosed after conducting the bottom condition

survey by echo-sounder on 4-5 September indicating that that local FADs installed in the positions where huge ARs existed nearby. This seems to be a reason why the local FADs were not removed by trawlers but only the newly installed FEDs. The detailed explanation on the survey is in Annex 3: Report on FEDs' Monitoring in Kuala Teriang, Langkawi.

The 16 units of artificial reefs were installed by DOF Malaysia in November 2007 within the zoning with an area of 69 x 42 m. The arrangement and the structural design are shown in Annex 4: Artificial Reefs installed by DOF in November 2007. The DOF Kedah spent RM 200,000 in total; RM 188,000 for construction and RM 12,000 for installation costs, from the management fund. Unlike the work done by LKIM in the past, the construction and installation in this case were undertaken without technical consultation with the technical staff of SEAFDEC/TD. The position of the installation is at Lat. 06_20.294 N and Long. 099_37.678 E (Fig. 2). The depth of location is about 20 m but the fishermen claimed that it was relatively shallower. It is evidently true that most local FADs are concentrated in the deeper waters 30 m depth. The proper position and location should have been more carefully studied before actual installation took place.

Fig 2: Position of ARs and FADs/FEDs in the zoning



Mangrove reforestation

Mangrove reforestation program is one of the feature activities of the KPSP Kuala Teriang in conjunction with the Tsunami Rehabilitation and fishery resources enhancement. In 2006, after conducting test planting of 60 seedlings in April, the Drainage and Irrigation Department (JPS) planted 1,500 mangrove saplings in front of the bay of Kuala Teriang toward the end of December 2006 by volunteers from KPSP. However, most of them perished due to strong tidal waves with the advent of the monsoon season. To cope with the difficulty, the JPS constructed

break water using synthetic fiber bags and the mangroves were planted again in the protected coast. Thus, 18,000 mangrove saplings have been planted so far.

Meantime, a possibility of getting a financial support for the mangrove reforestation emerged. SIDA has a certain fund to support mangrove reforestation in the areas that have suffered damages due to the 2004 Tsunami and the project site of Kuala Teriang was considered as a place applicable to this aid. Negotiations with SIDA had commenced to seek the possibility of obtaining some funds, while in the meantime the coordination among concerned bodies for mangrove reforestation in the area was promoted by the project. A fund of around USD 10,000 may be made available for this purpose, and a movement to form a committee consisting of representatives from the Forest Department, JPS, DOF, LADA and SEAFDEC/TD was considered.

2.7. Project management and operational committee meetings

Implementation Coordination Committee (ICC) meeting

The 9th ICC Meeting was summoned on 18 July 2007 in Langkawi. The main issues discussed at this meeting are:

- progress on commissioning of the new workshop and fish processing premises
- current status of promulgation of the Fisheries Management Plan
- progress on women's activities
- progress on mangrove reforestation
- project phasing-out process
- final project evaluation
- initiation of the Crab Bank

The detailed result of the discussions at this meeting is described in Annex 5: Minutes of the 9th ICC meeting.

The 10th ICC Meeting was convened on 11 December 2007 in Langkawi. The main issues discussed at this meeting are:

- progress of activities since the 9th ICC meeting
- prospective promulgation of the Fisheries Management Plan
- the role of DOF in ensuring the sustainable operation of CBRM activities and involvement of various institutions to this attempt after completion of the project
- the proposed regional project wrap-up workshop
- the final project evaluation
- the follow-up activity by SEAFDEC/TD

The detailed result of the discussions at this meeting is described in Annex 6: Minutes of the 10th ICC meeting.

2.8. Project follow-up

At the 10th ICC meeting in December 2007, the project follow-up action was specifically discussed and the outcomes include the following:

The responsible division to look after the ICRM-PL project within DOF shifted from the Planning and Development Division to the Licensing and Resources Management Division

towards the end of 2006. Aimed at coordinating the project management among relevant divisions especially after the withdrawal of SEAFDEC/TD's involvement in the project, the Project Implementation Committee was formulated within the DOF. The first committee meeting was held on 19 March 2007 in Langkawi. The continuous operation of the project activity will be realized through the expansion of the scope in the mid-term review of the 9th National Plan of Action (2005 – 2010) so as to ensure budgetary support. SEAFDEC/TD would continue its support to the project within a limited budget as a follow-up action.

3. OUTCOMES

The major outcomes of the project activities during this reporting period are:

Baseline surveys

- Regular fish landing data collection practice is continued.
- Regular marine biological survey is continued.
- FRI took over the survey activities from SEAFDEC/TD
- The report on Marine Resources Monitoring Survey in 2004 – 2006 was published.

Encourage and extend locally-based fishery resources management

- The draft of Fishery Resources Management Plan (FRMP) was refined by the legal advisor.
- The function of Local Enforcement Unit (LEU) commenced although it was within a limited scale.
- The scope of LEU was disseminated among the stakeholders in the neighboring villages.
- The Crab Bank scheme was initiated.

Promotion of fish based products businesses

- Construction of the new premises for processing fish products has just been completed.
- The new snack type of product has been tested with promising results.
- The business transaction by the KEW is financially sound.
- The bookkeeping and accounting technology has been noticeably improved with the KEW.
- The mechanical workshop was leased out to the KPSP member and continued its services to the members.

Enhance human resources capability

- The KEN was reorganized with a new name as the KPSP and an expanded scope of functions.
- The Fishers Workshop was held to disseminate the LEU function in Kuala Teriang.
- The sign board on Crab Bank was put up.

Fishing gear technology development

- The activity was put in lower profile and no significant progress was made during this reporting period.

Rehabilitation and enhancing coastal resources

- The planned impact survey on installed FEDs could not be conducted as all units have disappeared.
- 16 units of ARs were installed by DOF Malaysia in the zoning area.
- The wave protection wall was built using the Tsunami Fund by the Drainage and Irrigation Board (JPS) and 18,000 mangrove saplings were planted.

Committee meetings

- The 9th and 10th project Implementation Coordination Committee (ICC) meetings were convened.

4. MAJOR CONSTRAINTS

Data collection and marine biological survey

The data collection and marine biological survey constitute the basic mechanisms in monitoring the status of fishery resources dynamics in the project operational area. The DOF Malaysia is collecting data for the purpose of compiling the national fishery statistics, but since it does not contain the localized data it is not much applicable to the specific area. Therefore, localized data collection is a vital component in monitoring the project achievement. Until the end of 2006, all data collection and marine biological survey had been conducted through the initiative of SEAFDEC/TD and it was anticipated that in 2007 onwards the FRI would take over such role. However, the fact is they could carry out the survey only three times in March, June and September in 2007 due to financial constraints. The activity is essential and should be continued as long as the project is continued and further taken over by KPSP after withdrawal of the project.

Women's group activity

The outcome of the women's group activities in 2007 showed a notable progress compared with that in 2006. However, from 2008 a larger scale production is expected to commence using the newly completed processing yard. The KEW as well as the DOF Malaysia should realize that managing such new premises is completely different from that in the past which is cottage-scale management. First of all, the operational cost including the depreciation of huge infrastructure and modern machinery will be more than five times. To cope with that, the production scale should be expanded to at least three times, which also implies that the need for great expansion of marketing channels and diversification of the product lines are vital. In addition, the standardization of the product quality becomes more essential in case of mass production. In this component, further guidance and training should be provided by the Fish Handling and Processing Unit of DOF Malaysia and the Malaysian Fisheries Institute (IPM) in Terengganu. Luckily, the bookkeeping and accounting system for the processing transaction has been well established with the KEN thus, monitoring the financial status of the new enterprise would not be any problem at all.

5. THE WORK PLAN FOR THE NEXT REPORTING PERIOD

- The project involvement by the SEAFDEC/TD was terminated in December 2007. SEAFDEC/TD will continue some follow-up activities in 2008 as shown below:

Activity 1: Compilation and publication of reports

- Several surveys conducted in 2007 are compiled and the reports will be published
- The project final report is compiled and will be published.
- The project evaluation report will be published.
- The regional seminar report is compiled and will be published.

Activity 2: Follow-up activity

- Participation in IC meetings
- Participation in the local seminars and workshops organized by DOF Malaysia
- Monitoring the crab bank activity
- Monitoring the women's group activity

Activity 3: Terminal project evaluation

- Final socio-economic survey (only for specific themes)
- Terminal project evaluation
- Wrap-up SC meeting

Activity 4: Regional seminar for project wrap-up

- A regional seminar will be organized to review the impacts resulting from the project operation with the participation of representatives from SEAFDEC member countries.

6. REPORTS PREPARED

The reports and documents prepared under the project during this reporting period are listed below:

<u>No.</u>	<u>Title of the report</u>	<u>Name of author</u>	<u>Date of issue</u>
01.	Report on Marine Resources Monitoring in Langkawi during year 2004 – 2006	Penchan L.	Sept. 2007
02.	Travel Report to Langkawi on 17-19 July 2007	Sumitra R.	July 2007
03.	Travel Report to Langkawi on 3-6 September 2007	Sumitra R.	Sept. 2007
04.	Report on FEDs Monitoring in Kuala Teriang, Langkawi	Yuttana T.	Nov. 2007

Annex 1: Project Activity Monitoring Sheet for ICRM – PL in 2007

Planned: ←.....→
Actual : ←====→

Revision: 0
As of 31 December 2007

Activity	2007												Remarks	
	1	2	3	4	5	6	7	8	9	10	11	12		
1. Base line / Monitoring survey														
1.1. <u>Fish landing survey at the project site</u>														
1.1.1. Regular collection of data	←.....→													Continued activity Jointly conducted with FRI
1.1.2. Analyze and compile the annual data in 2006	←.....→								====→					
1.2. <u>Marine resources survey</u>														
1.2.1. Regular collection of data	←.....→													Continued activity Jointly conducted with FRI
1.2.2. Analyze and compile the annual data in 2006	←.....→								====→					Combined with 1.1.2.
1.3. <u>Specific topic survey</u>														
1.3.1. Impact survey by installation of FEDs/ARs							↔							March: Pre-installation survey
1.3.2. Analyze and compile the data							↔							No result of survey was obtained.
2. Encourage and extend the CBFMR concept														
2.1. <u>Zoning arrangement</u>														
2.1.1. Finalize the fishery management plan (FMP) in the demarcated zone	←.....→													Pending from 2006 Continued activity
2.1.2. Submission to DOF for endorsement				↔										Pending from 2006
2.1.3. Promulgation of FMP by the Ministerial Ordinance				←.....→										Pending to 2008
2.1.4. Implementation of FMP														Continued activity Pending to 2008
2.2. <u>Local enforcement unit</u>														
2.2.1. Identify an effective approach for local enforcement	←.....→													
2.2.2. Take relevant steps for the realization (to be more specified once measures are determined).														
2.3. <u>Crab bank scheme</u>														
2.3.1. Preparation for establishment of Crab Bank	←.....→													
2.3.2. Operation of the Crab Bank														Continued activity Continued activity
3. Encourage local business														
3.1. <u>Diversification / standardization of products produced by women's group</u>														
3.1.1. Training in new processing technologies	←.....→													Pending completion of new premises
3.1.2. Standardization of the products	←.....→													Continued activity by IPM Pending completion of new premises
3.1.3. Marketing promotion	←.....→													With assistance of LADA Continued activity
3.2. <u>Improvement of group management skills</u>														
3.2.1. Financial management	←.....→													
3.2.2. Local seminar on women's participation in group activity														Postponed to 2008

Activity	2007												Remarks	
	1	2	3	4	5	6	7	8	9	10	11	12		
3.3. <u>Expansion of fisheries related business for the community (KEN)</u>														
3.3.1. Study and identify alternative business opportunity														Pending from 2006
3.3.2. Take a relevant step for realization (to be more specified once measurements are determined)														Continued activity Cage culture initiated by private
4. Enhance human resources capacity building and participation														
4.1. <u>Enhance capacity building for FRMC</u>														
4.1.1. Fishers workshop on management plan														
4.2. <u>Restoration of data and information to the community</u>														
4.2.1. Local seminar on research works done														Postponed to 2008
4.2.2. Local seminar on impacts of project activities														Postponed to 2008
4.3. <u>Encourage participation to environmental development work</u>														
4.3.1. Identify and design the community environmental developmental work														Mangrove replantation
4.3.2. Organize and carry out various volunteer work (to be more specific after having a workshop)														Continued activity Limited participation in mangrove replantation
5. Fishing gear technology improvement														
5.1. <u>Training in improved fishing methods</u>														
5.1.1. Follow-up training course in boat repairing														Subject to completion of workshop Private workshop took over.
5.1.2. Follow-up training course in selected fishing gear as required														At request by KEN Provided with crab traps
6. Rehabilitate and enhance coastal resources														
6.1. <u>Fish Enhancing Devices (FEDs)</u>														
6.1.1. Installation of FEDs														
6.1.2. Evaluation on effectiveness and function of FEDs														Relating to 1.3.1.
6.2. <u>Installation of ARs</u>														
6.2.1. Installation of ARs														By DOF
6.2.2. Evaluation on effectiveness and function														Combined efforts with 6.1.2.
6.3. <u>Mangrove reforestation</u>														
6.3.1. Formulate reforestation plan with DID														Prepared by FRI
6.3.2. Implementation of reforestation plan														Collaboration with DID Implemented by DID
7. Project evaluation														
7.1. Final project evaluation														Posetponed in 2008
8. Committee meeting														
8.1. Steering Committee (SC)														
8.2. Implementation Coordination Committee (ICC)														

TRAVEL REPORT TO LANGKAWI, MALAYSIA
3-6 September 2007

Sumitra Ruangsivakul
2 October 2007

1. Background

The project visited the operational site in Langkawi, Malaysia, on 3 – 6 September 2007 to pursue various activities as listed below.

Marine biological survey:

This is the regular marine biological survey jointly conducted bi-monthly by FRI, Penang, and SEAFDEC/TD (SEAFDEC/TD joins every 4 months). The survey is carried out in two days on 4 and 5 September.

FED impact marine biological survey:

The 10 units of FED were installed in April 2007 and habitat changes are to be investigated by observation by a remote control camera and diving, if possible, and by marine biological survey. The result is compared with the one obtained in the pre-installation survey in March 2007. This survey should be jointly conducted by FRI and Fisheries Development Center, Penang, and SEAFDEC/TD with the same manner as the pre-installation survey. Taking advantage of this occasion, the SEAFDEC/TD team will work out to add some more floats on each FED to increase more buoyancy. As to the detailed preparatory work, it will be directly discussed with concerning parties and decided.

Monitoring bookkeeping and accounting for KEW:

The new and user-friendly bookkeeping and accounting system was introduced in April 2007 in a bid to improve the accountability and maintain the transparency of women's activity. Since then, the monthly monitoring by verification on each ledger book has been carried out. The verification work will be jointly carried out by SEAFDEC/TD team and the extension office of District Fisheries Office, Langkawi.

Fishermen's Workshop on CBRM:

The Fishermen's Workshop is organized with the following main objectives.

- To make all stakeholders in Langkawi acquainted with the whole scope of the CBRM concept that the project is attempting to introduce in the area
- To explain to all stakeholders in Langkawi the function and mechanism of Local Enforcement Unit (LEU) consistent with the provision of FMP

Others:

It was mentioned at the 9th ICC meeting that LKIM intended to install 16 units of AR in the demarcated zone in Kuala Terian in September 2007. This would be a good occasion to discuss on the suitable locations for installation of these units with the SEAFDEC Expert and a responsible officer of LKIM in face to face in Langkawi.

2. Traveler

- | | |
|------------------------|-------------------------------------|
| - Yuttana Theparoonrat | - CFMDH |
| - Sei Etoh | - Project Leader |
| - Sumitra Ruangsivakul | - Head, Socio Economic Section |
| - Weerasak Yingyuad | - Researcher |
| - Tanyalak Suasi | - Researcher (In-charge of ICRM-PL) |

3. Work schedule

- 03 Sept. (Mon) : - Leave Bangkok for Langkawi through KL by Air Asia (ETA 16.00)
- Preparation of FED impact survey
- 04 Sept. (Tue) : - Marine biological survey
- FED impact survey
- Monitoring bookkeeping and accounting for KEW
- 05 Sept. (Wed) : - Marine biological survey
- FED impact survey
- Monitoring mangrove reforestation activity
- Fishermen's Workshop
- 06 Sept. (Thu) : - Monitoring bookkeeping and accounting for KEW
- Leave Langkawi for Bangkok by Air Asia (ETD: 17.10)

4. The result

4.1 Visit women's group

- DOF, Malaysia by Kedah State provided two machines for fish processing, Maruku maker and Sealing machine to KEW (Women's Group)
- Maruku maker is producing new products, namely Maruku, the price of this machine was 19,000 RM, started to produce on 29 August 2007.
- Muruku maker can make Muruku products very fast and high quality products, but women's group produced only 4 kg in terms of flour per day. One time produced 32 packages, one package (200 gm) is 3 RM.
- Ms. Thanyalak, SEAFDEC/TD, was checking and data collecting the bookkeeping and accounting with Extension worker, DOF and Treasurer of women's group.



Fig. 1 Muruku maker



Fig. 2 Data collecting of bookkeeping and accounting

4.2 Fisher's workshop

- Fisher's workshop on local enforcement started at 0300 pm. on 5 September, the participants were member of KEN Kuala Teriang, KEN Kuala Chenang and KEN Kubang Badak, LKIM's representative, DOF of Kedah State and Langkawi, SEAFDEC/TD and University, the total participants was 39.
- The budget of this workshop was supported by DOF, Malaysia and SEAFDEC/TD, the main issue of this workshop was CBRM concept, function and mechanism of Local Enforcement Unit (LEU).

- Mr. Mahadir B Ibrahim, Chairman of KEN Kuala Teriang, informed the problem in this area that, some trawler came to fishing in Zone A, every KEN were worry in this problem, and would like to prevented their fishing ground.
- Mr. Wan Muhammad Asnan, Deputy Director of DOF Kedah State, informed that, DOF have provided ARs and patrol boat to local enforcement unit, and presented the function and role of local enforcement unit.
- Mr. Etoh, SEAFDEC/TD explained the background of this project (ICRM-PL) that, this project followed Japanese system, so your activity will follow regulation of Japan, by make Resources Management Plan.
- In case of KEN Kuala Teriang have organized KPSP (Fishery Resources Management Community), Management Plan was formulate (FRMP), consensus on the zoning was build up, and activity on CBRM were initiated, like ARs, FEDs, mangrove reforestation and Crab Bank.
- The next step of KEN Kuala Teriang will be implementation of FRMP, and improvement FRMP.
- The last minute of workshop, DOF of Kedah State provided three sets of GPS and Echo-sounder to KEN Kuala Teriang, KEN Kuala Chenang and KEN Kubang Badak. SEAFDEC/TD provided T-shirt of Crab Bank to every participants.



Fig. 3 Fishermen's workshop on
and sounder
Local Enforcement Unit



Fig. 4 one set of GPS

4.3 FED impact marine biological survey

- All researchers of this activity were 3 of SEAFDEC/TD and 4 of FRI, Penang, two days of data collection, on 4-5 September.
- The result of this survey will reported by biological team later.

Annex 3

Report on Fish Enhancing Devices (FEDs) Monitoring in Kuala Teriang, Langkawi, Malaysia 4-5 September 2007

Dr. Yuttana Theparoonrat
22 November 2007

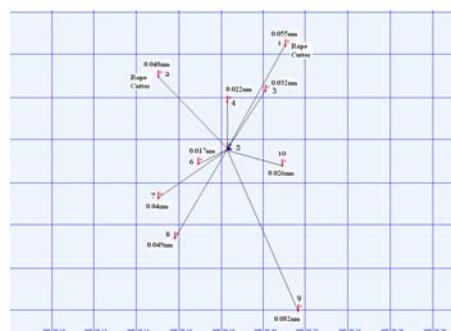
Since, SEAFDEC/TD staffs were introduced a new designed of FEDs to the fishermen group of Kuala Teriang, Langkawi, Malaysia during 17-22 March 2007 under the project of Integrated Coastal Resources Management in Pulau Langkawi (ICRM-PL). Ten unit of FEDs were proposed to install in the demarcated zone of Kuala Teriang. TD staffs in accompany with fisheries officer DOF Malaysia are conducted an installation of 10 unit s of FEDs on 4-5 April 2007. The installation position are indicated by proposed of fishermen group as shown in the Table 1. and Figure 1. There are around 20 fishermen participated in the installation process. The installation were conducted by 2 local fishing boat equipped with GPS and Echo-sounder system.

Table 1. FEDs installation position in demarcated zone of Kuala Teriang

No.	Position	
	Latitude	Longitude
1	6° 19'.025 N	99° 36'.211 E
2	6° 19'.011 N	99° 36'.151 E
3	6° 19'.004 N	99° 36'.202 E
4	6° 18'.999 N	99° 36'.184 E
5	6° 18'.977 N	99° 36'.184 E
6	6° 18'.970 N	99° 36'.170 E
7	6° 18'.954N	99° 36'.151 E
8	6° 18'.935 N	99° 36'.159 E
9	6° 18'.901 N	99° 36'.217 E
10	6° 18'.968 N	99° 36'.209 E



(a)



(b)

Figure 1. FEDs installation position in demarcated zone

SEAFDEC/TD staffs in cooperation with FRI fisheries officers , DOF Malaysia conducted monitoring survey on the condition and performance of FEDs as well as survey on marine environmental condition during 4-5 September 2007. The monitoring of FEDs are conducted by under-water observation by scuba diving as well as using echo-sounder. Position of FEDs are searching by GPS. However, there are no FEDs found during the survey. Report from local fishermen found that some part of marked PVC pipe and buoyancy float of FEDs were cut by commercial trawler.



Figure 2. Vessel cruise track (red line) during searching for FEDs (yellow spot).



Figure 3. Marked PVC pipe and buoyancy float of FEDs were cut by commercial trawler.

Recommendation

Since, the installation position of FEDs were proposed to install in the demarcated zone of Kuala Teriang by local fishermen group. Even through, the FEDs position are located in the demarcated zone, but lack of intensive patrolling by fisheries officer will caused of damage of FEDs by intruding commercial trawler . It found that during the monitoring survey conducting, there are three commercial trawler operating inside the area of demarcated zone. There are no any immediately action from local fishermen to report to authority concern for stop those intruding trawler. In order to avoid damage of fishing gear and further installed

resources enhance device from trawler, it should be re-considering on the measure to preventing of illegal trawler.

For further project installation of FEDs in the demarcated zone, it recommend to install on the position of artificial reefs installed by LKIM on 20-22 January 2006. The ARs will using for preventing damage of FEDs from trawler. The position of AR installed are shown in Figure 4, 5 and Table 2.

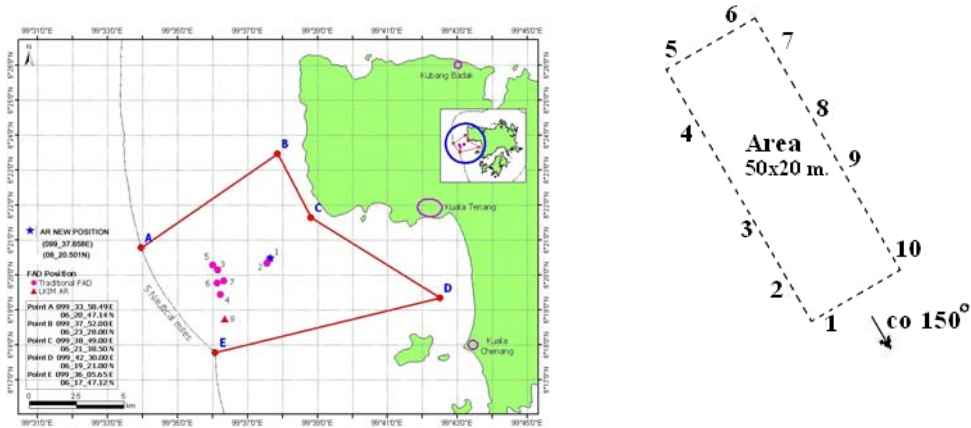


Figure 4. Location of ARs installed by LKIM on 20-22 January 2006

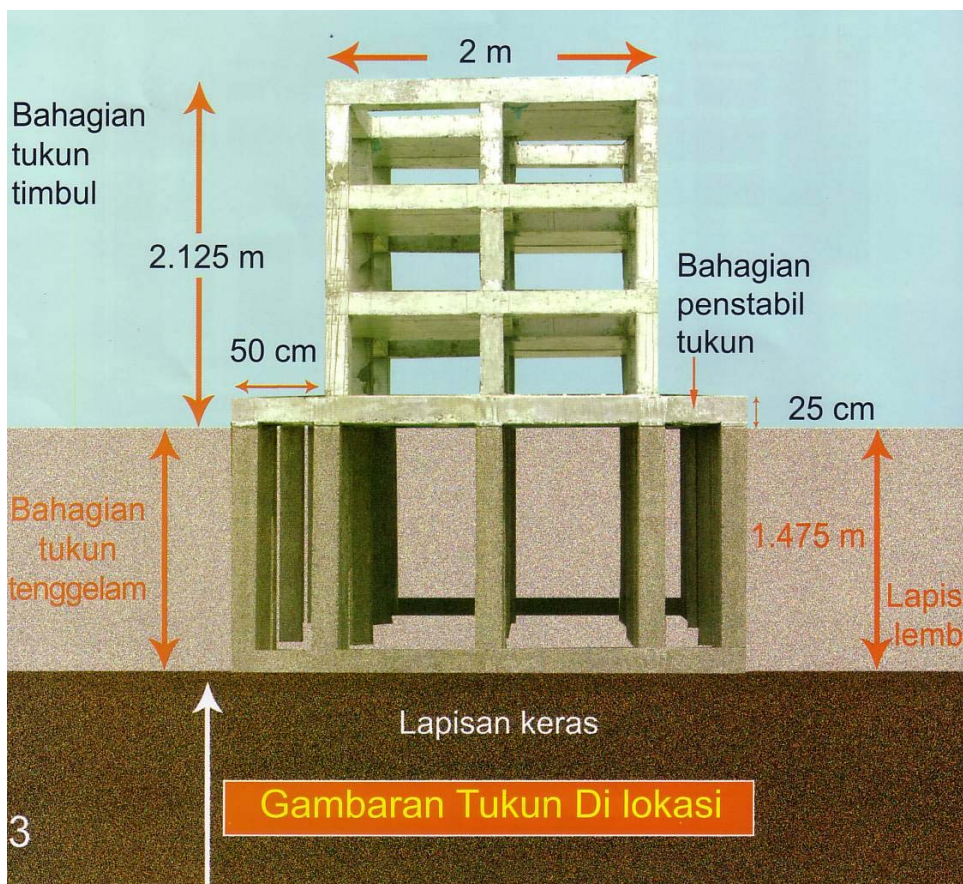
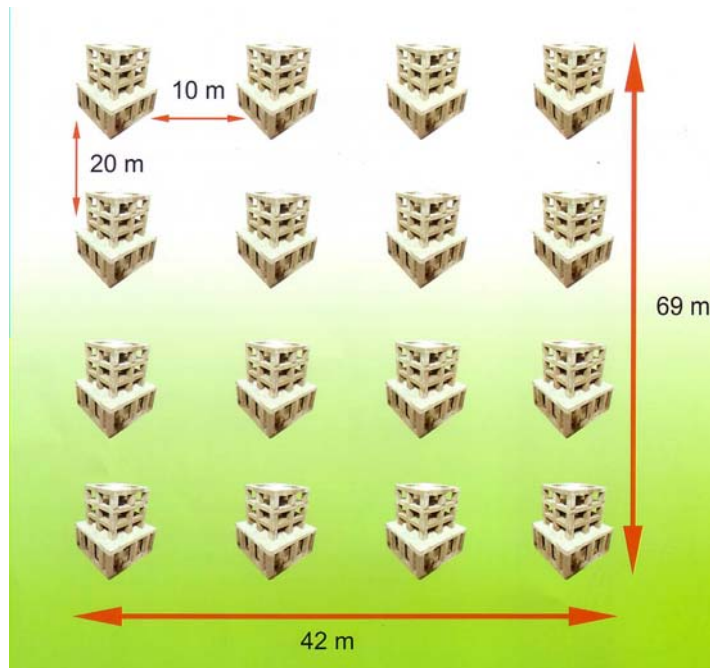


Figure 5. Installation of ARs by LKIM on 20-22 January 2006

Table 2. Position of AR installed by LKIM on 20-22 January 2006.

No.	Latitude	Longitude
1	06° 20'.505 N	099° 37'.634 E
2	06° 20'.506 N	099° 37'.642 E
3	06° 20'.504 N	099° 37'.647 E
4	06° 20'.497 N	099° 37'.652 E
5	06° 20'.501 N	099° 37'.661 E
6	06° 20'.489 N	099° 37'.656 E
7	06° 20'.487 N	099° 37'.647 E
8	06° 20'.492 N	099° 37'.645 E
9	06° 20'.494 N	099° 37'.640 E
10	06° 20'.498 N	099° 37'.661 E

Annex 4: Artificial Reefs installed by DOF in November 2007



Design of each artificial reef

MINUTES of THE 9TH ICC MEETING

ICRM-PL

AT HOTEL CITYVIEW, LANGKAWI

ON 18TH JULY 2007**1. List of Participants:**DOF Malaysia

- | | |
|--------------------------------------|---|
| 1) Mr. Abd. Rahman Abd. Wahab
and | Fisheries Officer, Planning Development
International Division, DOF, KL
<u>Chairman</u> |
| 2) Mr. Abdul Hamid Yasin | Operation Section Head, DOF, KL |
| 3) Mr. Wan Muhammad Asnan | Fisheries Officer, State of Kedah |
| 4) Mr. Arthur Besther Sujang | Planning, Development and International
Division and National project |
| 5) Mr. Tuen Shukri T Embong | IPM on processing, Terengganu |
| 6) Mr. Ahmad Saktian Langgang | Resources Management Div., DOF, KL |
| 7) Mr. Ibrahim Johari | SEAFDEC/MFRDMD |
| 8) Mr. Abdul Razak bin Latun | FRI, Penang |
| 9) Mr. Ahmad Husin Alias | MaREC, Perak |
| 10) Mr. A. Krishnashmy | Extension Division, DOF, KL |
| 11) Mr. Badeli Hassan | District Fisheries Officer, Langkawi |
| 12) Ms. Sabidah Salleh | Fisheries Officer, Langkawi |

LKIM

- | | |
|---------------------------|----------------------------|
| 13) Mr. Hashim Ab. Rahman | State Director/LKIM, Kedah |
|---------------------------|----------------------------|

KEN, Kuala Teriang

- | | |
|------------------------------|----------------------------|
| 14) Mr. Mahadir Ibrahim | KEN's Chairman |
| 15) Mr. Hj. Pazil B Hj. Din | KEN's Secretary |
| 16) Ms. Che Embon Binti Saad | KEW's Chairman |
| 17) Ms. Mahani BT Masor | Secretary of women's group |

SEAFDEC/TD

- | | |
|------------------------------|-------------------------------------|
| 18) Mr. Seiichi Etoh | Project Leader |
| 19) Ms. Sumitra Ruangsivakul | Socio-economic Sec. Head, Res. Div. |
| 20) Ms. Thanyalak Suasi | Officer in-charge of ICRM-PL |

2. Welcome address:

The meeting was chaired by Mr. Abdul Rahman b. Abdul Wahab, Fisheries Officer, Planning, Development and International Division, DOF Malaysia. Mr. Mohd Shaupi B. Derahman, Director of Planning, Development and International Division, DOF Malaysia was not able to attend and chair the meeting as he has to attend an equally important mission abroad.

Mr Chairman expressed concern on the inconsistency of method employed in the marine biological survey as it posed difficulty in comparing a time-series data.

Therefore he called SEAFDEC/TD and FRI to craft a more consistent and uniform methodology so as to ensure a comparable data.

3. Adoption of Agenda

The proposed agenda was adopted without amendment.

4. Endorsement of the Minutes of the 8th ICC meeting

ARs and FEDs

The FEDs (10 units) that have been installed last month was found to have problem by trawler encroachment. Two floats were found missing and one whole unit of FED was lost untraced. The encroachment by trawlers using extraordinary high opening '*pukat buaya*' was believed to have caused the problem. SEAFDEC/TD will have to conduct study to determine the real cause.

Data collection

The Data collection was carried out in June by FRI. However, it can't be carried out regularly due to resource constraint and other work commitment by FRI.

Encourage Local Business

Currently the KEW is taking raw material to process from the supplier, then this processed material will be sent back to the exporter to be packed and marketed.

Established and function of local enforcement unit (LEU)

The use of the local enforcement unit will be intensified due to the encroachment by trawlers. All fishermen are encouraged to report and encroachment activities directly to DOF, rather than report to KEN's chief. More socialization is required among fishermen in Langkawi on the existence of LEU

Crab Bank

Crab traps have been distributed last month to the crab fishermen. M. Etoh informed that they have put up posters informing the local fishermen regarding the project and to inform about releasing crabs which have eggs.

5. Current Status of Japanese Grass Root

Mr. Badeli informed that the fund for the construction and procurement will be completed by August 14. Most of the equipments were supplied by DOF. For the construction of building, the fund is from the Japanese Grassroot fund and supplemented by DOF. The meeting noted the followings;

- The workshop is fully completed.
- The machine to make fish '*maruku*' will arrive in Aug.
- Ice making machine will arrive end of July.

6. Work Plan 2007

Enforcement activity

- The enforcement activity will be intensified due to encroachment activity by trawlers, and the use of 'pukat buaya'. Cooperation by fishermen to inform the DOF staff immediately when noticing any encroachment by trawlers is greatly appreciated so that action can be taken swiftly.
- KEN requested the DOF to conduct 1 day Meet the Client session with the fishermen to explain the role and responsibility of the Local Enforcement Unit. This way direct information can be relayed straight to the fishermen on things which should be carried out. This meeting will be organized by Langkawi Fishermen's Association.
- A big scale operation will be conducted by DOF to monitor and enforce fishing gear used by trawlers and local fishermen. This operation is also to nab fishermen using 'pukat buaya'.

Accounting System

- SEAFDEC will continue to monitor the rectified accounting system as KEW is implementing it ever smoothly.

FEDs

- It is suggested that the FEDs should have more buoyancy.
- The installation of floats will be carried out on the 28-29 August 2007.
- The fishermen requested that the fund for the FEDs construction to be channeled straight to them to construct more locally design.
- 16 units of Artificial Reef will be installed by DOF.

Mangrove Reforestation

- SIDA will provide the funding for the project, but the working paper on recommendation, design and plan should be submitted. A meeting on this project will be held the next day after this ICC meeting. The meeting noted that notwithstanding of the available amount of fund, it has to be coordinated with JPS or Forest Department.
- Further discussion and meeting with the said Department will be initiated by District Fisheries office.

7. Other Matters

Change of KEN name

KEN have change their name to Kumpulan Pengurusan Sumber Perikanan (KPSP), or Fisheries Resources Management Group.

Project Extension

Practically, SEAFDEC will end their direct involvement in the project by end of 2007. DOF will continue to monitor the project by 2008 with follow up and maintain all activities and infrastructure available.

Outsourced Consultation on the Project Final Evaluation

This final evaluation will be conducted once the candidate has been selected. TOR of the final evaluation will be given to select potential candidates by the DOF. SEAFDEC were asked to consider raising the consultancy fee from USD 1000 to USD 2000 to attract potential candidate, especially from the private sector and higher institutions.

8. Closing

Mr. Chairman thanked all participants of the meeting for their involvement and contribution to the meeting in giving their comments towards the successful implementation of this project.

Drafted by : Mr. Arthur Besther Sujang (31.07. 2007)
Endorsed by : Mr. Sei Etoh (02.08.2007)
: Mr. Abdul Rahman bin Abdul Wahab (28.08.2007)

Annex 6

MINUTES ON THE 10TH PROJECT IMPLEMENTATION COORDINATION COMMITTEE (ICC) MEETING, ICRM-PL

AT MEETING ROOM OF AQUACULTURE OFFICE, LANGKAWI
ON 11TH DECEMBER 2007

1. List of Participants:

DOF Malaysia

- | | |
|-------------------------------------|---|
| 1. Mr. Abdul Rahman bin Abdul Wahab | Planning and International Division & National Project Coordinator
<u>Chairman</u> |
| 2. Ms. Hjh Razidah Budin | Licensing Section Head, KL |
| 3. Ms. Harati Abd. Wahab | Marine Resources Management, KL |
| 4. Mr. Abd Razak Latun | FRI, Penang |
| 5. Mr. Hadzley Harith | FRI, Penang |
| 6. Mr. Ahmad Ali | SEAFDEC/MFRDMD |
| 7. Mr. Nizam Bin Khairuddin | Langkawi District Fisheries Officer |
| 8. Ms. Sabidah Bt Saleh | Langkawi District Fisheries Officer |

LKIM (Fisheries Development Authority of Malaysia)

- | | |
|-----------------------------|----------------|
| 9. Mr. Rosdi Abdul Rashid | LKIM, Langkawi |
| 10. Mr. Azri Rusydi A Rahim | |

KEN / KEW member

- | | |
|------------------------------|----------------------------|
| 11. Mr. Mahadir Ibrahim | KEN's Chairman |
| 12. Mr. Hj. Pazil B Hj. Din | KEN's Secretary |
| 13. Ms. Che Embon Binti Saad | KEW's Chairman |
| 14. Ms. Mahani BT Masor | Secretary of women's group |

SEAFDEC/TD

- | | |
|-----------------------------|--------------------------------------|
| 15. Mr. Seiichi Etoh | Project Leader
<u>Co-Chairman</u> |
| 16. Ms. Sumitra Ruangsvakul | Section Head, Socio-economic |
| 17. Ms. Thanyalak Sausi | Officer in-charge |

2. Welcome address:

The meeting was chaired by Mr. Abdul Rahman b. Abdul Wahab, Fisheries Officer, Planning, and International Division, DOF Malaysia. He apologizes on Mr Shaupi Derahman behalf for not being able to preside the meeting due to unforeseen circumstances. He then expresses deepest gratitude and appreciation to SEAFDEC for every effort and knowledge imparted to Malaysia as a whole. Mr. Sei Etoh was the co-chairman.

The Chairman introduced all participants from each agency.

3. Adoption of Agenda

The proposed agenda was adopted without amendment.

4. Endorsement of the Minutes of the 9th ICC meeting

The minutes of the last 9th ICC meeting held on 18 July 2007 was discussed for endorsement as follows.

List of Participants

Mr. Etoh commented that the names of participants should be spelled out in the participant's list.

ARs and FEDs

Mr. Etoh informed the meeting that 10 units of FEDs were installed by SEAFDEC in April 2007 and the impact marine biological survey was to be carried out on 4/5 September 2007. However, all of them had been disappeared by then and the planned survey could not be taken place. The loss is most suspected without any doubt to be responsible with rampages by trawlers. The detailed description is reported by Dr. Yuttana in September 2007. Mr. Etoh stressed that no installation of FEDs should be made until otherwise the invasion of trawlers would be well controlled.

Mr. chairman explains that it is close to impossible to curb encroachment by trawlers in totality but rather to minimize them. The existing monitoring centre manned by fishermen and DOF staff has been a success to reduce such activities and this is acknowledged by fishermen.

Data collection

The SEAFDEC has supported to finance the data collection exercise by the nominated enumerators until December 2007 and the FRI agreed to continue financing thereafter in 2008. In addition, the FRI was to carry out the marine biological survey every other month with the same mode of survey as the SEAFDEC had been applied in the past. However, in fact they could manage to conduct only twice in March and June in this year due to the financial constraint, Mr. Razak explained.

Encourage Local Business

Mr. Etoh questioned about a marketing effort to be exerted for the KEW. Ms. Sabidah explained that the quantity of production was now limited and the marketing had been depending on potential buyers or visitors to the sales outlet. However, after expansion of production lines in the newly completed fish processing yard in 2008, the production of anchovy will commence for the export markets on the consignment base with the Anchovy Fishing Consortium in Langkawi.

KEN (KPSP) has not decided to venture into new business as for now. Nevertheless, This issue will be discussed separately with Mr. Badali (Head of Fisheries Langkawi). The selling of ice and lubricant oil business were still continued in the community center. The new engine workshop was leased out to the private sector who also repaired engines for KPSP's members in addition to repairing any other machines. KEN is anyway advised to engage into a written agreement with the tenant so as to ensure the use of the premise does not

jeopardize the ultimate function of the workshop to repair boat engine.

Established and function of local enforcement unit (LEU)

Mr. Etoh commented on the fact that more numbers of trawlers' invasion in the project site (the demarcated zone) were witnessed in 2007 compared with those in 2006. Mr. Rahman mentioned that many trawlers have good communication systems among them and they can detect the patrol boats' movement.

Ms. Razidah Budin, Licensing Section Head, KL, stated that the Kedah State initiated the new measures in a bid to reduce the trawler fleet from January 2007 that any trawler who would wish to abandon trawl fishing was eligible to receive RM 50,000 per a boat for compensation. 40 out of existing 400 trawlers were already applied for this measures and ready to be sunk as ARs in the State's waters. If they are willing to continue trawling, they are obliged to move out of the fishing zone B and allowed to operate in the zone C after 12miles from the coast line onwards from 2008.

Crab Bank

SEAFDEC will prepare five prizes to the members of the crab bank group who release most gravid crab. This activity started in June 2007 and the evaluation will be made in July 2008.

Current Status of Japanese Grass Root Fund

Ms. Sabidah informed the meeting that almost all the proposed work were completed and the auditing was conducted by the Japanese Embassy secretaries on 15 November 2007. The final evaluation report has not been released by the Embassy yet. The electrification and the water supply system were completed in the first week of December 2007 and awaiting installation of a new oven to be provided by the DOF Malaysia.

Mr. Etoh stated that the well-planned production and plant management in line with the economic viability would be vital as the scale of production would be increased more than triple, to which the Fish Processing Section of DOF Malaysia and the Fisheries Training Institute (IPM), Terengaganu, should continue providing with a close technical assistance.

5. Activity since the last 9th ICC meeting

The activities carried out since the last 9th ICC meeting on 18 July 2007 were reported by the respective agency.

Rehabilitation and resources enhancement activity

16 units of ARs were installed in the project site on 1 November 2007 by DOF. The location was at 06° 20.294" N Latitude and 099° 37.678 E Longitude with the dimensions of 69m x 42m. Mr. Etoh commented that MFRDMD or DOF should have informed the SEAFDEC/TD before installation as the SEAFDEC/TD had been involved since its inception of ARs and FEDs installation and a consultation would be beneficial for proper selection of installation positions.

Mangrove Reforestation

Mr. Etoh informed that now JPS was constructing the water-break off the coast line and 18,000 mangrove seedlings were planted inside of it and needed to know the cost of construction of water break so as to compare with the cost of planting mangrove seedlings

protected by the PVC pipes as recommended by the FRI. He further asked the meeting of the future plan of JPS. This would be closely related to the proposed future input by SIDA.

A comment on mangrove reforestation in this meeting was made as the selection of tree for reforestation should be made from locally indigenous varieties but not foreign mangrove trees. The meeting agreed that this suggestion would be worthwhile to study further.

6. Project Extension

The collaborative project ICRM-PL is to be terminated towards the end of December 2007 and thereafter it is expected to be taken over by DOF Malaysia. But, it is difficult to continue as it has been done as one project operational core. The meeting noted that the project will continue and each division in the DOF is urged to exert effort to secure funds under the mid term review of the Ninth Malaysia Plan..

7. Work Plan 2008

Mr. Etoh informed the meeting of the proposed work plan in 2008 by SEAFDEC/TD as the follow-up stage. There are three main activities; i.e. publication of reports, participation in any project implementation meeting and organizing a wrap-up SC meeting and a regional seminar. The meeting took note of the request by Malaysia for a brochure / flyer type of publication as to increase awareness of the project among the DOF staff. Such a communication media is viewed to educate the public at large as well.

Mr. Rahman mentioned on the regional seminar as Mr. Mohd Shaupi Derahman had agreed to this seminar, but SEAFDEC must support the budget for two Malaysian participants. Against his proposal, Mr. Etoh expressed his view as sharing the cost of a regional seminar is the basic principle of the collaborative project framework and bearing the cost for participation of Malaysian officers are solely responsible by DOF Malaysia.

Mr. Etoh stated that one of incomplete activities among others was a promulgation of the fisheries management plan within the zoning arrangement and he was still concerned about its future course of events. Mr. Rahman replied as it was still under polishing by the Legal Section of DOF, KL and explained that such process will take quite sometime any deadline is hard to determine. Anyway, without doubt he also expects to see big progress by middle of 2008.

Mr. Rahman requested the SEAFDEC/TD to prepare and print the project profile like brochure and to convene the SC meeting in Phuket Province in March 2008. Mr. Etoh agreed to these proposals in principle.

Outsourced Consultation on the Project Final Evaluation

For conducting the final project evaluation, there are two candidates so far; i.e. Mr. Ibrahim Saleh and Mr. Ismail Awang Kechik. The further confirmation to find out their availability will be made by DOF Malaysia.

8. Closing

Mr. Chairman thanked all participants of the meeting for their involvement and contribution to the meeting in giving their comments towards the successful implementation of this project.

Drafted by : Ms. Sumitra Ruangsivakul (25.12.2007)
Endorsed by : Mr. Sei Etoh (26.12.2007)
: Mr. Abdul Rahman bin Abdul Wahab (28.12.2008)