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REPORT ON THE FOURTH REGIONAL TRAINING COURSE
FOR
FISHERY EXTENSION OFFICERS IN MARINE CAPTURE FISHERIES
1 JUNE to 8 JULY 1983

Submitted by
the Training Department
Southeast Asian Fisheries Development Center
to
the Royal Government of the Netherlands

CONTENTS

	Page
I. Introduction	1
II. Objectives	1
III. Course Outline	2
IV. Training Program	3
V. Evaluation	4
VI. Conclusion	5
ANNEXES :	
A. List of Participants and Lecturers	6
B. Training schedule	11
C. Results of Evaluation	15

REPORT ON THE FOURTH REGIONAL TRAINING COURSE
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I. INTRODUCTION

The Fourth Regional Training Course for Fishery Extension Officers in Marine Capture Fisheries was organized at the Training Department from 1 June to 8 July 1983. This was the fourth course held since 1981, to which the Royal Government of the Netherlands gave its generous support, recognizing the urgent need for promoting fishing technology in the Southeast Asian region. Owing to the success of the previous courses, a large number of governments in the region released one or more of their fishery officers to attend this training. The number of participants from these seven countries was as follows:

India	1
Indonesia	2
Malaysia	4
Philippines	4
Singapore	2
Sri Lanka	2
Thailand	<u>8</u>
Total	<u>23</u>

The list of participants is given in Annex A.

Invitations to nominate participants to attend this training course were also sent to the Governments of Bangladesh, Brunei and Burma but no response was received. In addition, one Indian participant failed to join the course owing to difficulties in travel arrangements. The total number of participants was therefore less than the expected number i.e. 30.

II. OBJECTIVES

The objectives of this training course were:

1. To provide intensive training in fishing gear and methods used in marine fisheries in the region;
2. To familiarize the fishery extension officers from the region with techniques and methodology employed in improving the efficiency of marine capture fisheries; and

3. To provide experience and practical knowledge relating to the development of coastal fisheries, with particular reference to the efficient and rational utilization of fishery resources in the South and Southeast Asian regions.

Practical rather than theoretical training was the prime objective of the course. While conveying to the trainees the basic concepts of marine capture fisheries, emphasis was placed on practical knowledge suitable for such fisheries. The trainees thus concentrated on fishing gear construction and actual operation at sea.

III. COURSE OUTLINE

The curricula of the first three extension courses in marine capture fisheries generally comprised a variety of related technologies in order to cover as widely as possible the field of extension services. A two-month training with an average of 12 subjects was conducted. However, during evaluation of the courses, it was considered that there were too many subjects for a training duration of two months, resulting in insufficient time being allowed for an in-depth study of and training in each subject. Recommendations were made that intensive training should be conducted in a few specific subjects rather than in a larger number of topics.

The Fourth Regional Training Course's curriculum was therefore substantially modified compared with the previous curricula, and consisted of three main subjects, as well as shipboard training and field trips, i.e.,

1. Fishing Technology (15 days)
 - 1.1 Fisheries in general
 - 1.2 Fishing gear in general
 - 1.3 Fishing gear design and construction
 - 1.4 Fishing methods
 - 1.5 Practice on net, rope, and wire
2. Coastal Navigation (2 days)
 - 2.1 Determining ship position
 - 2.2 Chart reading
3. Fishing Communities (1 day)

The other activities were a nine-day shipboard training in fishing operations and coastal navigation, field trips and an excursion, and an evaluation session followed by the closing ceremony. The training schedule is given as Annex B.

Emphasis in the curriculum was placed on fishing gear and methods. Practice in fishing gear design and construction was carried out mainly in the net workshop where all participants designed and constructed their own gear to be used for fishing at sea during the fishing operations. Participants were trained to test the gear, after which they made modifications whenever the gear did not operate satisfactorily. The course was thus designed to promote self-confidence as well as to stimulate ideas for making future improvements.

IV. TRAINING PROGRAM

1. Lectures and Practice

In general, the daily schedule began with class lectures between 0850 and 1200 hrs., followed by afternoon practice in the net workshop or on board one of the Center's berthed training vessels, from 1300 to 1600 hrs. Twenty-four days were devoted to theoretical study, construction of fishing gears, and actual fishing operations on board the training purse-seiner M.V. PLATOO. Morning lectures were sometimes accompanied by demonstrations in the workshop or testing laboratory, mainly concerning fishing gear construction. Literature on subjects in related fields was distributed to participants for extra-curricula reading.

Four kinds of fishing gear were constructed by participants during the course and completed as planned. The gears were:-

- a. A trawl net for M.V. PLALUNG
- b. A cast net for squid fishing for M.V. PLATOO
- c. A lift-net for squid fishing for M.V. PLATOO
- d. A gill net (Spanish Mackerel Gill Net), size (120m x 10) x (175 x $3\frac{7}{8}$), for M.V. PLATOO

2. Field Trips

Trips to places of interest were normally carried out on Saturdays when the daily training was conducted outside the

Training Department. The places visited were a net factory, fish markets, cold storages, fish landing places, and others as follows:

- 4 June 1983 : Visited Siam Brothers Co., Ltd, a net making factory in Phra Pradaeng, Samut Prakan. Here participants had an opportunity to see the production lines of fishing nets starting from the raw materials to the finished products.
- 11 June 1983 : Visited Fish Marketing Organization (FMO) in Samut Sakhon province to observe fish landing and marketing activities.
- 18 June 1983 : Visited Fish Marketing Organization (FMO) in Bangkok at 0630 hrs. to observe the fish landing and marketing activities. At 1030 hrs., visited Cold Storage Organization at Samut Prakan to see fish processing, packaging, freezing, storing, etc.
- 25 June 1983 : Excursion to the Ancient City at Samut Prakan, where important historical monuments etc., in Thailand are reproduced on a reduced scale.

3. Shipboard Training at sea

The participants travelled by bus to Prachuap Khiri Khan province for a nine-day shipboard training in the Gulf of Thailand, from 28 June to 6 July 1983. The training concentrated on fishing operations on board M.V. PLATOO and M.V. PLALUNG, while practice on navigation and seamanship was conducted while the fishing gears were being operated. Navigation was also practised during the sailing time from the fishing grounds back to the shore. All gears constructed by participants were tested satisfactorily after some modifications. The daily fishing operations began according to the type of fishing gear, i.e., 0800 hrs. for day-time operations and 1800 hrs. for night-time operations. Since M.V. PLATOO and M.V. PLALUNG are too small to accommodate all participants during the rest periods, rooms were booked in a local hotel for all participants throughout the shipboard training period.

V. EVALUATION

As for each of the previous training courses, the success of the training was evaluated at the end of the training period by asking participants to fill in a questionnaire in which they were asked to give their views on the course. In general, satisfaction was expressed as regards the duration of the training,

number of subjects, method of training, etc. Participants were also requested to compare the present curriculum with the curricula of previous courses, and to express their opinion whether intensive training in a few subjects in some specific fields would be more effective than the general training comprising many subjects as had been the practice for the first three courses. The majority of the participants was in favour of the specific training type, or in-depth training, as provided in the present course.

A summary of the results of this evaluation is given as Annex C.

VI. CONCLUSION

The new training concept proved to be practicable both for the Department staff and the participants. The existing Training Division staff were directly responsible for the teaching of most of the subjects, whereas, for previous courses, instructors had to be invited from outside the Department to teach several additional subjects. Participants were satisfied with the intensive training in design and construction of various fishing gears. However, one pertinent suggestion by participants is worthy of note, i.e., that the language barrier between participants and instructors could be minimized by equipping the class room with suitable training aids, e.g., a wireless microphone for the soft-spoken instructor; and an appropriate number of slides and diagrams to be used with an overhead projector. Participants with a limited knowledge of English, in particular, would benefit from these training aids.

The duration of the course was also thoroughly discussed and the conclusion was that the time allocated was too short for a detailed study of several fishing gears. It was agreed that the appropriate duration of such training was at least six to eight weeks instead of five weeks, i.e., four to six weeks for class study, workshop and shore practice (gear construction) plus two weeks for fishing operations. Some participants suggested that the participants should stay on board during the whole period of shipboard training. Although the idea is acceptable from the point of view of saving time and fuel, it is not practical owing to the size of the boats, deck space when fully equipped with several fishing gears, accommodation on board (11 bunkers on board M.V. PLATOO against 23 + 11 participants and crew), storage capacities for fuel, fresh water, food, etc.

To conclude this report, it can be said that the Fourth Extension Course was conducted satisfactorily, all the planned objectives having been achieved. This new concept of training, which places emphasis on specific fields relating to fishery extension services, proved to be more practical and could be carried out more efficiently than the general training given in the previous three courses. It is therefore suggested that any future short-term courses should be conducted along the same lines.

LIST OF PARTICIPANTS AND LECTURERS

A. Participants

1. INDIA Mr. D.A. Patnaik
 Directorate of Fisheries
 Orissa State, India

2. INDONESIA
 - (1) Mr. Eddy Setiadhy
Fishery Officer
BKPI, Tegal
Jl. Martoloyo, Tegal

 - (2) Mr. Djugi Waluyo
Fishery Officer
Pusat Pendidikan and Latihan Pegawai
BPLPP-DEPTAN
Jl. Ragunan 15 Pasar minggu
Jakarta Selatan

3. MALAYSIA
 - (1) Mr. A. Rahman bin Mohamad
Fishery Officer
State Fisheries Office
Johore Bahru, Johore

 - (2) Mr. Ahmad Sabki bin Mahmood
Fishery Officer
State Fisheries Office
Trengganu, Kuala Trengganu

 - (3) Mr. Hat bin Hoklai
Fishery Officer
Marine Fisheries Department
Kuching, Sarawak

 - (4) Mr. Awang bin Haji Bakar
Deputy Maritime Fishery Officer
Fisheries Office Beluran
Sandakan, Sabah

4. PHILIPPINES

- (1) Mr. Edwin C. Borromeo
Junior Fishery Biologist
Bureau of Fisheries and Aquatic Resources
Masinloc, Zambales
- (2) Mr. Hannibal M. Chevez
Junior Fishery Biologist
Bureau of Fisheries and Aquatic Resources
National Capital Region, Navotas,
Metro Manila
- (3) Mr. Esmeraldo T. Combras
Fishery Technologist
Bureau of Fisheries and Aquatic Resources
Regional Office No. 8, Tacloban City
- (4) Mr. Benebert R. Fernando
Fishery Technologist
Bureau of Fisheries and Aquatic Resources
1184 Ben-Lor Bldg., Quezon Avenue
Quezon City

5. SRI LANKA

- (1) Mr. W.S.G. Samuel
Fishery Inspector
District Fisheries Extension Office
Trincomalu
- (2) Mr. W.M.D. Weerakoon
Fishery Inspector
Planning and Programme Division
Ministry of Fisheries
Columbo 15 (Mattakkuliyar)

6. SINGAPORE

- (1) Mr. Lee Leong Son
Fishery Officer
Department of Primary Production
- (2) Mr. Ng Haw Chun
Fishery Officer
Department of Primary Production

7. THAILAND

- (1) Mr. Akasak Boonyanudech
Fishery Officer
Phuket Marine Fisheries Station, Phuket
- (2) Mr. Chul Sinchaipanich
Fishery Biologist
Marine Fisheries Division, Bangkok
- (3) Mr. Kitisarn Puttisomsathit
Fishery Officer
Exploratory Fishery Division, Samut Prakan
- (4) Mr. Pongtawat Tekboonyong
Fishery Officer
Exploratory Fishery Division, Samut Prakan
- (5) Mr. Sittisak Somsri
Fishery Officer
Department of Fisheries, Bangkok
- (6) Mr. Tinnakorn Samngamnoi
Fishery Officer
Exploratory Fishery Division, Samut Prakan
- (7) Mr. Wittaya Tungarat
Assistant Provincial Fishery Officer
Chumpon Province
- (8) Mr. Yotee Wongwaivech
Department of Fisheries, Bangkok

B. Lecturers

I. Training Department Staff

1. Dr. Shigeaki Shindo,
Deputy Secretary-General and Deputy Chief
of Training Department.
(Lecturer on Fisheries in General)
2. Capt. Vudhi Sudhasaneya, RTN,
Head of Training Division,
Marine Engineering Instructor.
(Course Director)

3. Mr. Tomeyoshi Yamazaki,
Head of Fishing Technology Section,
Fishing Gear Instructor.
(Lecturer on Fishing Technology)
4. Mr. Masatake Okawara,
Fishing Technology Section,
Fishing Gear Instructor.
(Lecturer on Fishing Technology)
5. Mr. Prasert Masthawe,
Fishing Technology Section,
Fishing Gear Instructor.
(Lecturer on Fishing Technology)
6. Mr. Kungwan Juntarashote,
Head of Statistics and Socio-Economics Section,
Training Department.
(Lecturer on Fishing Communities)

II. Guest Lecturers

1. Mr. Komes Chareonpanich,
Fishery Technologist,
Marine Fishery Research Center,
Department of Fisheries.
(Lecturer on Trawl Net Fisheries)
2. Cdr. Pramual Thamsuvan, RTN,
Chief of Nautical Section,
Hydrographic Department, Royal Thai Navy.
(Lecturer on Coastal Navigation)

TRAINING SCHEDULE

1 June, Wednesday

- 1030 - 1200 : Opening Ceremony. Introduction of Staff and Participants. (Dr. Shindo, Capt. Vudhi)
- 1300 - 1600 : Orientation of the Course in general, film and slide show on fishing operations and fishing industries (Capt. Vudhi, Mr. Yamazaki)

2 June, Thursday

- 0850 - 1200 : Fishery in general (Dr. Shindo)
- 1300 - 1600 : Fishing Gear in general (Mr. Yamazaki)

3 June, Friday

- 0850 - 1200 : Basic Fishing Gear Technology (Mr. Yamazaki)
- 1300 - 1600 : Rope Splicing Practice (Mr. Prasert)

4 June, Saturday

- 0900 - 1200 : Visit Net Making Factory, Siam Brothers Co., Ltd. (Mr. Prasert, Mr. Supavit)

5 June, Sunday

Rest

6 June, Monday

- 0850 - 1200 : Coastal Navigation (Cdr. Pramual)
- 1300 - 1600 : - ditto -

7 June, Tuesday

- 0850 - 1200 : Coastal Navigation (Cdr. Pramual)
- 1300 - 1600 : - ditto -

8 June, Wednesday

- 0850 - 1200 : Basic Fishing Gear Technology
(Mr. Yamazaki)
- 1300 - 1600 : Wire-Rope Splicing Practice (Mr. Prasert)

9 June, Thursday

- 0850 - 1200 : Trawl Net Fisheries (Mr. Komes)
- 1300 - 1600 : Trawl Net Making Practice (Mr. Komes,
Mr. Prasert)

10 June, Friday

- 0850 - 1200 : Trawl Net Fisheries (Mr. Komes)
- 1300 - 1600 : Trawl Net Making Practice (Mr. Komes,
Mr. Prasert)

11 June, Saturday

- 0800 - 1300 : Visit Fish Market at Samut Sakhon
province (Mr. Prasert, Mr. Supavit)

12 June, Sunday

Rest

13 June, Monday

- 0850 - 1200 : Trawl Net Fisheries (Mr. Komes)
- 1300 - 1600 : Trawl Net Making Practice (Mr. Komes,
Mr. Prasert)

14 June, Tuesday

- 0850 - 1200 : Purse Seine Fisheries (Mr. Prasert)
- 1300 - 1600 : - ditto -

15 June, Wednesday

- 1850 - 1200 : Squid Fisheries (Mr. Prasert)
- 1300 - 1600 : Squid Net Making Practice (Mr. Prasert)

16 June, Thursday

0850 - 1200 : Squid Fisheries (Mr. Prasert)
1300 - 1600 : Squid Net Making Practice (Mr. Prasert)

17 June, Friday

0850 - 1200 : Squid Fisheries (Mr. Prasert)
1300 - 1600 : Squid Net Making Practice (Mr. Prasert)

18 June, Saturday

0630 - 0930 : Visit Fish Marketing Organization at
Bangkok (Mr. Kungwan)
1030 - 1200 : Visit Cold Storage Organization at
Samut Prakan (Mr. Kungwan)

19 June, Sunday

Rest

20 June, Monday

0850 - 1200 : Fishing Communities (Mr. Kungwan)
1300 - 1600 : - ditto -

21 June, Tuesday

0850 - 1200 : Gill Net Fisheries (Mr. Yamazaki)
1300 - 1600 : Gill Net Making Practice (Mr. Yamazaki)

22 June, Wednesday

0850 - 1200 : Gill Net Fisheries (Mr. Yamazaki)
1300 - 1600 : Gill Net Making Practice (Mr. Yamazaki)

23 June, Thursday

0850 - 1200 : Gill Net Fisheries (Mr. Yamazaki)
1300 - 1600 : Gill Net Making Practice (Mr. Yamazaki)

24 June, Friday

0850 - 1200 : Line Fisheries (Mr. Okawara)
1300 - 1600 : - ditto -

25 June, Saturday

0800 - 1200 : Excursion to the Ancient City
(Mr. Punlop, Mr. Prakit)

26 June, Sunday

Rest

27 June, Monday

0900 : By bus to Prachuap Khiri Khan province
for shipboard training in the Gulf of
Thailand, and boarding M.V. PLATOO &
M.V. PLALUNG. (Mr. Prasert, Mr. Supavit)

28 June, Tuesday

Fishing Operations on board M.V. PLATOO:

to 6 July, Wednesday

1. Purse Seine Operation 2 days
2. Squid Fishing Operation 2 days
 - a. Casting Type
 - b. Lift Net Type
3. Trawling Operation 1 day
4. Spanish Mackerel
Gill Net Operation 1 day
5. Trap Net Operation 1 day

7 July, Thursday

0900 : Departure from Prachuap Khiri Khan to
Training Department by bus.

8 July, Friday

0900 - 1100 : Evaluation (Capt. Vudhi)
1700 - 1900 : Closing Ceremony.

RESULTS OF EVALUATION
(Inquiry by Questionnaire)

1. How does the course suit you? In views of:-
 - 1.1 Training duration : too short (12), too long (1), fair (10)
 - 1.2 Number of subjects : too many (3), too few (2), fair (18)
 - 1.3 Subjects : the content is too brief (4), too long (3), appropriate (15)
 - 1.4 Method of training : need more theory (8), more practice (7), efficient (6)
 - 1.5 Other comments
Training facilities,
training site, etc. : Satisfactory
2. Is there any other fishing gear which, in your opinion, should be included for Fishery Extension Services in Marine Capture Fisheries?
 - Yes (11) : Shrimp trawl net, bottom long line, beach seine, any other new fishing gear.
 - No (12) : The present subjects are quite adequate.
3. Is there any subject of this course which you feel is not directly related to your field of work as an extension officer?
 - Yes (2) : This course was not aiming for extension, but specifically for fishing gear.
Trawling is not necessary for Indonesia.
 - No (16) : All subjects are directly related.

4. Are study trips to places related to fishery beneficial to you? if so, in what respect? Please comment if not.

Yes (18)

No (1) : no trip related to fishery (?),
no visit of fishing community.

5. What fishing gears are most used in your local area of operation? Please state the location of area(s):

Indonesia : Trammel Net.

Malaysia & Philippines : Trawl, gill net, purse seine,
shrimps trawl net.

Singapore & Sri Lanka : Purse seine, long line, squid
lift net.

6. Back at home, are you continuing to work in the field of Fishery Extension?

Yes (19)

No (4)

7. If not, in what field are you expecting to be posted?

Back to previous position, e.g., Head of Regional Office
(India).

8. What part of the year (month) is most suitable to your home office in dispatching participants to take part in such a course abroad?

All Muslim participants : Not during the Fasting
Months (June, July).

The other participants : Varies from April to
October.

9. Any suggestion for course improvement, e.g. need more detailed instruction or more lecture periods on any particular subject?

1. Should add Oceanography and Electronics Fishing
Equipment.

2. More time for construction of fishing gears needed.
3. More time for fishing operation at sea. Save the sailing times to & from the fishing grounds by staying on board during the whole shipboard training period.