

Republika ng Pilipinas
(Republic of the Philippines)
MINISTRI NG EDUKASYON AT KULTURA
(MINISTRY OF EDUCATION AND CULTURE)
Maynila

September 8, 1981

MEC M E M O R A N D U M
No. 165, s. 1981

FIVE-DAY SEMINAR-WORKSHOP ON INLAND FISHERIES
(SHRIMP HATCHERY MANAGEMENT OPERATION)

To: Bureau Directors
Regional Directors
Schools Superintendents
Vocational School Superintendents/Administrators

1. To avail of the expertise of the Japanese expert who is currently based at the Apolinario R. Apacible School of Fisheries, Nasugbu, Batangas, under the JICA-Colombo Plan Technical Cooperation Program, the Ministry of Education and Culture through the Bureau of Secondary Education will conduct a five-day seminar workshop on Inland Fisheries (Shrimp Hatchery Management Operation) at the said school on October 5-9, 1981. Inclosed is the tentative program of activities.

2. The major objective of this in-service training program is to develop better skills among instructors in shrimp hatchery operation as an income-generating project. Specifically, it aims to:

- a. apply better techniques in the collection and handling of suppo breeders;
- b. practice induced/natural breeding of gravid shrimps;
- c. conduct/replicate experimental activities in hatching particularly on stages of development (cell division) and feeding;
- d. demonstrate the preparation of reagents and solutions for water analysis;
- e. perform analysis of various water samples;

- f. demonstrate the proper use, care and maintenance of hatchery equipment within the context of lessons in inland fisheries; and
 - g. review the curriculum framework of science subjects (previously developed) for purposes of enrichment.
3. Participants to this seminar-workshop shall be fishery teachers handling classes in inland fisheries (secondary level). In view of the limited equipment and facilities for the training, it is suggested that a school send only one participant, preferably the most ranking, to ensure a better multiplier effect of the training program.
4. Participants are allowed traveling expenses and per diems including a registration fee of ₱250 to cover expenses for supplies and materials chargeable against local funds, subject to usual accounting and auditing regulations.
5. It is desired that the contents of this MEC Memorandum be disseminated immediately to all concerned.

(SGD.) ONOFRE D. CORPUZ
Minister of Education and Culture

Incl.: As stated

Reference:
None

Allotment: 1-2--(D.O. 1-76)

To be indicated in the Perpetual Index
under the following subjects:

BLUE REVOLUTION ✓
SEMINARS ✓
TEACHERS ✓
VOCATIONAL EDUCATION ✓
WORKSHOP ✓

(Inclosure to MEC Memorandum No. 165, s. 1981)

TENTATIVE SCHEDULE OF ACTIVITIES

DATE	ACTIVITIES
First Day - October 5	Opening Session Orientation Review of previously prepared curriculum materials Lecture I - Biology of the Shrimps
Second Day - October 6	Lecture 2 - Growing of Shrimp Food Workshop I - Start propagation of natural shrimp food, Brachionus and Chlorella Lecture 3 - Importance of Dissolved Gases and Other Elements in Water Workshop 2 - Preparation of chemicals/solutions for water analysis
Third Day - October 7	Workshop 3 - Collection of samples for water analysis Workshop 4 - Collection of Gravid breeders Lecture 4 - Demonstration on Use, Care and Maintenance of Hatchery Equipment
Fourth Day - October 8	Workshop 5 - Observation of shrimp breeding - Identification of eggs, (nauplius) larva, etc.
Fifth Day - October 9	Discussion of results of propagation of (Chlorella) and (Brachionus) Presentation of enriched curriculum materials Wrapping-up session