

Minutes of Meetings
for
The Project Formulation Study
on
Coastal Erosion and Protection/Rehabilitation of the Romanian Black Sea Shore

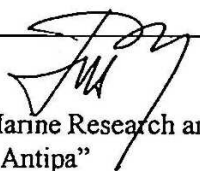
Agreed upon between
Ministry of Agriculture, Forests, Water and Environment of Romania
and
Japan International Cooperation Agency

Bucharest, November 25, 2003



Mr. Florin Stadiu
Secretary of State,
Ministry of Agriculture, Forests, Water and
Environment of Romania


Mr. Yoshiyuki Hoshiyama
Leader,
Project Formulation Study Team,
Japan International Cooperation Agency (JICA)

Witnessed by


Mr. Simion Nicolaev
General Director,
National Institute for Marine Research and
Development "Grigore Antipa"


Mr. Hiroshi Furukawa
Resident Representative,
Japan International Cooperation Agency
Japan Overseas Cooperation Volunteers
Romania Office


Mr. Nicolae Panin
Director General,
National Institute for Marine Geology and
Geo-Ecology

Introduction

In response to the official request of the Government of Romania, the Japan International Cooperation Agency (hereinafter referred to as "JICA") dispatched the Project Formulation Study Team (hereinafter referred to as "the Team"), headed by Mr. Yoshiyuki Hoshiyama, to Romania from September 17 to 26, 2003 to confirm the request of the Romanian Government.

During the stay in Romania, the Team conducted field reconnaissance in the Romanian littoral, and held a series of meetings with the Ministry of Agriculture, Forests, Waters and Environment (hereinafter referred to as MAFWE) and related institutions.

The following are the summary of find-outs of the survey, and main points discussed and agreed between both sides. The wrap up meeting was held on November 25, 2003, and The Minutes of Meetings have been signed. The list of those who attended the meeting is shown in Annex.

I. Current Situation of the Romanian Littoral

As a result of field reconnaissance, the following situation was observed.

- 1) Cause of Erosion in the Romanian Black Sea Shore
Decrease of sediment supply from the Danube River and construction of artificial structures along the coast are considered to be two of the major cause of coastal erosion in the Romanian Black Sea Coasts. Thus, countermeasures along the coast are expected to be based on the beach nourishment and protection works.
- 2) Situation in the Northern Littoral
The Northern littoral from Sulina to Midia is a consecutive seashore in the respect that the influence of Danube-born sediment is rather high. The rehabilitation of the coast together with the conservation of 3 lagoons are a major issue in order to preserve the environment.
- 3) Situation in the Southern Littoral
The Southern littoral from Midia to Vama Veche is under the influence of several existing offshore structures and some of the coasts are under severe erosion. The Romanian Government has already taken various rehabilitation measures, some of which we see some progress. Still, the erosion is going on, and some coasts such as cliffs need careful countermeasures.
- 4) ICZM Law
In December 2002, the ICZM (Integrated Coastal Zone Management) Law was established, and is underway for enforcement. Based on this law, related institutions will cooperate with each other in order to cope with coastal erosion, but detailed countermeasures have not been identified yet.



II. Countermeasures for Coastal Erosion

To cope with the issues stated in I, the following steps are recommended when considering the countermeasures.

- 1) Analysis of Littoral Drift Mechanism through Existing Data and Additional Survey
Romania has a storage of data, such as geological, morphological, marine meteorological data and aerial photographs. Analysis of the sediment drift mechanism should be conducted, by utilizing these data and by conducting additional surveys.
- 2) Evaluation of Potential Sources for Sand Nourishment, Including the Use of Offshore Sediment
Measures to exploit sands for beach nourishment should be examined. The sources shall be carefully evaluated by assessing the environmental impact of exploitation, economical effectiveness such as transportation cost, and accompanied protection works and measures related.
- 3) Analysis on the Effectiveness of Existing Structures
Effectiveness of the existing artificial structures along the coast should be analyzed. Necessary measures for rehabilitation should be taken for the ones that are not effective.
- 4) Evaluation of Countermeasures through Pilot Projects
Effective and low-cost measures for protecting the coasts should be evaluated, through small-scaled demonstrative projects.
- 5) Formulation of Coastal Protection Plan
Through the evaluation of needs for urgent protection, the emergency measures should be examined, and the integrated coastal protection plan on the short and long term basis should be formulated considering the state of erosion and utility of beaches.

III. Purpose of the Project Formulation Study

The Romanian side understood the purpose of the Project Formulation Study is to collect further information in order to identify the technical validity of the Japanese cooperation, and that The Minutes of Meetings would not make any commitment.

IV. Counterpart Organization

The Romanian side agreed that MAFWE would be the counterpart organization if the Development Study is to be conducted. The counterpart organization has final responsibility for the study and plays the role of coordination among other organizations involved.

The Romanian side also agreed to assign counterpart staffs from MAFWE and related institutions which will work with the Japanese team during the study at their own expense, and provide existing data accumulated in these institutions necessary for the study.

Annex

ATTENDANCE LIST

ROMANIAN SIDE

Ministry of Agriculture, Forests, Water and Environment

Mr. Florin Stadiu	Secretary of State
Mr. Gheorghe Constantin	Director
Mr. Dumitru Dorogan	Counselor

National Institute for Marine Research and Development “Grigore Antipa”

Mr. Simion Nicolaev	General Director
Mr. Danut I. Diaconeasa	Senior Scientist

National Institute for Marine Geology and Geo-Ecology

Mr. Nicolae Panin	Director General
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JAPANESE SIDE

JICA Project Formulation Study Team

Mr. Yoshiyuki Hoshiyama	Leader
Mr. Isao Irie	Member (Rehabilitation of Sea Shores)
Mr. Kazunori Wada	Member (Coastal Erosion)
Ms. Ai Yamazaki	Member (Study Planning)

JICA/JOCV Romania Office

Mr. Hiroshi Furukawa	Resident Representative
Ms. Mai Tanaka	Program Coordinator
Mr. Mitsuharu Ogaki	JICA Expert

