

## **APPENDICES**

**with the advice on the Laguna  
the Bay project, the Guidelines  
project and the combined  
proposal on Coastal and  
Environmental development  
in the Philippines**

**(appendices 1 to 4)**

## APPENDIX 1

### Letter from the Netherlands Embassy dated 18 February 1998 in which the Commission has been asked to submit an advice



AMBASSADE VAN HET KONINKRIJK DER NEDERLANDEN  
Royal Netherlands Embassy

Re.: MAN/OS

Manila, 18 February 1998

Subject: Netherlands Commission for EIA

Dear Mr. Scholten,

During the past two years the Netherlands Embassy at Manila has been approached by various Philippine Government institutions with a view to enlist Dutch expertise in the field of land reclamation and the management of coastal and lake areas. These issues were amongst others discussed during the visit to the Philippines by the Netherlands Prime Minister, Wim Kok, in November 1996 as well as during the recent visit of Minister for Economic Affairs, Hans Wijers, last December.

The Netherlands have indicated their interest in jointly carrying out a number of priority activities and the possible financial support thereof. In considering to participate in such activities great emphasis will have to be laid on the environmental aspects and feasibility. In fact, if financial support were to be provided to activities in this field, the funds would derive from the budgetline "Environmental activities" of the Minister of Foreign Affairs/Development Cooperation's budget. At this point in time it is not yet possible to give an accurate estimate of the funding available.

The activities under consideration are the following:

1. The "GeoCES project", Geosciences for Coastal and Environmental Studies (proposal by the Philippine Mines and Sciences Bureau, Geological Survey of the Netherlands and the Netherlands Institute for Aerospace Survey and Earth Sciences).
2. The "Guidelines Project", aiming at the development of guidelines for environmentally and socially acceptable reclamation projects in coastal and lakeshore areas.
3. The "Laguna de Bay Project", a technical and environmental study to support the sustainable development of the environment of the Laguna de Bay Basin.
4. The "Manila de Bay Project", a combined study and survey on coastal and environmental development of the Wider Manila Bay Area (proposal by Delft Hydraulics/FUGRO Engineers B.V./TNO).

In order to advise the Embassy and the Philippine Government I would like to invite your Commission to assess:

- the relevance of these projects from point of view of protecting c.q. taking into adequate account of the environment.
- the quality of the available documents regarding the above mentioned projects

It seems that there is a certain amount of cohesion between these proposals and I therefore would also appreciate receiving the Commission's views of and advise on the prioritisation and, where appropriate, of the desirable time sequence of activities to be undertaken.

This would generate a synergy between the various project activities, thereby reducing cost and time input.

With reference to the agreement between the Netherlands Development Agency (NEDA) and the Netherlands Commission for EIA of January 1998 I look forward to your early response on the proposed timing, duration, composition and budget of the proposed mission.

In order to further Philippine ownership of the findings and recommendations of the mission I would advise that two Philippine experts be included in the mission. If so desired the Embassy could suggest some names.

As to the timing I may recall that Minister Wijers during his visit to the Philippines in December 1997 indicated that a mission composed of members of your commission would be requested to visit the Philippines in the first months of 1998. Presidential and other elections are to take place in the Philippines in May which would render this month quite unsuitable for the mission. Also in view of some upcoming transfers and the availability of relevant embassy staff members I would strongly plead that the mission would visit the Philippines no later than mid April.

The mission would be expected to provide the draft report on its findings and recommendations before their departure. The final report would be expected no later than 31 May 1998.

A list of project documentation is attached hereto separately.

I look forward to your early response.

Yours sincerely  
For the Ambassador,

Hans J.J. Teunissen, Counsellor

To: The Netherlands Commission for EIA,  
attention Mr. J.J. Scholten  
PO Box 2345  
3500 GH Utrecht.

## **APPENDIX 2**

### **Project information**

**Proposed activity:** The Government of the Philippines in collaboration with the Netherlands Government, has indicated its interest in a number of projects dealing with integrated coastal zone development in Wider Manila Bay area and the possible financial support therefore. Three project proposals have been elaborated by Netherlands and Philippines institutes and they have been reviewed by the Commission for Environmental Impact Assessment.

**Categories:** Government planning DAC-CRS code 91090; water pollution control DAC-CRS code 92012; marine pollution control DAC-CRS code 92018; environmental protection activities DAC-CRS code 92100; environmental research information DAC-CRS code 92115

**Project numbers:** The Royal Netherlands Embassy MAN/OS: Commission for EIA: 032

**Progress:**

Letter requesting for advice: 18 February 1998

Site visit by working group: 18-27 April 1998

Advice submitted: 11 May 1998

**Composition of the working group of the Commission for EIA:**

Mr R.W. van Oostrum

Mr J.G.L. de Schutter

Mr J.H.J. Terwindt

Mr D. de Zeeuw (chairman)

Mr R. Jara has contributed as a resource person.

**Technical secretary:** Mr A.J. Kolhoff

## **APPENDIX 3**

### **Programme of the Commission**

#### **Saturday 18 April**

18.15 Arrival at Philippines by KL 807

#### **Sunday 19 April**

09.00 - 10.30: Briefing of the Commission for Environmental Impact Assessment by the Netherlands Embassy Mr J.J. H. Teunissen and Ms M. van Drunen Littel in the Dusit hotel;

10.30 - 12.30: Meeting with Mr Robert Jara (director of Department of Environment and Natural Resources / DENR) resource person of the Commission;

13.30 - 18.00: Boat trip Manilla Bay, guidance by Ms Josefina Castro (assistant general manager) and Mr D. Tan (engineer) of Public Estates Authority (PEA).

#### **Monday 20 April**

06.00 Departure to Laguna Lake Development Authority (LLDA) in Barangay Bangyas, Mr J. Antonio (project officer of the Netherlands Embassy) joined the Commission at the LLDA;

10.00 - 12.00 Presentation on LLDA and its projects by Ms Alice Bongco (deputy general manager of LLDA) representing Mr C. Tomboc who was abroad;

12.30 - 13.30 Presentation of sedimentation study by Ms Alice Bongco and Ms Dolora Nepumucenco of LLDA;

13.30 - 14.00 Presentation of project; Ecosystem approach for sustainable development by Dr. Corazon Santiago;

14.00 - 15.00 Presentation of project; Sustainable development of the Laguna de Bay environment. A project proposal to the Government of the Netherlands;

15.00 Departure to Manila.

#### **Tuesday 21 April**

09.00 - 12.00 Meeting with PEA; Mr A. Yulo (general manager), Mr T. Lacson (deputy general manager), Mr M. Ignacio (deputy general manager), Ms J. Castro (assistant general manager), Mr J. Milan (assistant general manager), Mr J. Regala (architect), Mr D. Tan (engineer), Ms E. Mendoza (engineer);

14.00 - 16.00 Meeting with DENR/Mines and Geoscience Bureau (MGB); Mr H. Ramos (director), Mr E. Domingo (assistant director), Dr. R. Javelosa (geologist) and Mr R. Almeda (geologist);

16.00 - 18.00 Meeting with DENR/Environmental Management Bureau (EMB); Mr R. Alcances -OIC EIA division, Mr L. Claudio;

20.00 Dinner with Mr Belo Oberdorfer (Ballast Nedam).

#### **Wednesday 22 April**

08.30 - 10.00 Meeting with National Economic Development Authority; Mr A. Yap (assistant director);

10.00 - 12.30 Meeting with Mr R.T. Cruz project manager of the Parsig river project;

14.00 - 14.30 Visit to Mr Ramos of DENR (secretary);

15.00 - 16.00 Meeting with Marine Science Institute / University of the Philippines; Dr. Gomez (director) and G.S. Jacinto;

20.00 Preparation of the main recommendations for Mr H. Wijers (Minister of Economic Affairs in the Netherlands).

**Thursday 23 April**

07.30 - 18.00 Departure for field visit to study area GeoCES project;  
19.00 Dinner hosted by Ms M. van Drunen Littel with Embassy staff and representatives of Phillipines organisations involved in the projects:

**Friday 24 April**

07.30 - 14.00 Departure for a speed boat trip on the Pasig river and Laguna de Bay with representatives of the LLDA. Visit of fish ponds an water treatment plant;  
16.00 - 17.00 Meeting with Tambuyog Development Centre a NGO; Mr T. Jacinto (deputy director) and the programme officer.

**Saturday 25 and Sundy 26 April**

Preparation of the advice.

**Monday 27 April**

Finalising of the advice;  
12.30 - 14.00 Debriefing at the Netherlands Embassy with Mr Kwint (ambassador), Mr J.J.H. Teunissen, Ms M. van Drunen Littel, Mr A.I. Jayme of the Netherlands Embassy and Ms A.Wevers (DGIS/DML-MI), Mr R. Slotweg (Geoplan International);  
19.20 Departure to Amsterdam by KL 808.

## APPENDIX 4

The following three projects are reviewed in this advice. The third project is a combined proposal consisting of three projects.

### 1. Laguna de Bay project

Name of project	:	Sustainable development of the Laguna de Bay environment. A project proposal to the Government of the Netherlands.
Proponent	:	Laguna Lake Development Authority (LLDA).
Aim	:	Development of Integrated Water Resources Management through institutional strengthening and development of related tools and skills.
Activities	:	<ul style="list-style-type: none"><li>- develop a permanent monitoring and evaluation system for hydrological and environmental variables;</li><li>- develop a set of modelling tools to examine the physical, chemical and biological behaviour of the lake waters;</li><li>- carry out a dredging and land reclamation related feasibility study including environmental impact assessment;</li><li>- carry out a study on the Laguna de Bay as a potential source for domestic water supply;</li><li>- carry out training of LLDA staff in the field of water management.</li></ul>
Status	:	ToR for this project has been approved by the LLDA and been send to the Netherlands Embassy in Manila..
Philippines institute	:	LLDA.
Netherlands institute	:	Delft Hydraulics.

### 2. Guidelines project

Name of project	:	Guidelines project; Development of guidelines for environmentally and socially acceptable reclamation projects in coastal and lakeshore areas.
Proponent	:	Environmental Management Bureau of the Department of Environment and Natural Resources (DENR-EMB).
Aim	:	Develop guidelines for environmentally sound and socially acceptable land reclamation projects.
Status	:	ToR for this project have been approved by the LLDA and National Economic Development Authority (NEDA).
Philippines institute	:	DENR-EMB
Netherlands institute	:	Dr. Waterman (Netherlands consultant).

### **3. Coastal and environmental development; Combined study and survey proposal**

Name of project	:	Coastal and environmental development; Wider Manila Bay are, the Philippines; Combined study and survey proposal.
Proponent	:	Public Estates Authority (PEA).
Aim	:	To develop capacity for integrated coastal zone management for the Wider Manila Bay area.
Activities	:	<ul style="list-style-type: none"><li>- the setting up of an Integrated Coastal Zone Development and Management Unit in PEA in cooperation with DENR and other authorities;</li><li>- collection of data and development of an information system on land and water resources;</li><li>- development of a decision support system (DSS) for comprehensive analysis of specific development projects;</li><li>- institutional support including training and support in terms of facilities, hardware and software.</li></ul>
Status	:	Project proposal has been approved by the PEA.

This combined proposal consists of the following three projects:

#### **3.1 Integrated management and development of land and water resources of the Wider Manila Bay area**

Name of project	:	Integrated management and development of land and water resources of the Wider Manila Bay area.
Proponent	:	Delft Hydraulics.
Aim	:	Development of a decision support system in order to contribute to an integrated coastal zone development. On basis of the DSS the PEA should be able to take justified and well informed decisions on land reclamation.
Activities	:	<ul style="list-style-type: none"><li>- to establish a coastal zone management unit for the wider Manila Bay area within the PEA;</li><li>- develop an atlas of land and water resources;</li><li>- develop a decision support system (DSS) for the wider Manila Bay area; transfer of technology and training.</li></ul>
Philippines institute	:	PEA
Netherlands institute	:	Delft Hydraulics



### **3.2 Geosciences for coastal and environmental studies**

Name of the project	:	Geosciences for coastal and environmental studies.
Proponent	:	Netherlands Institute of Applied Geoscience TNO - National Geological Survey (NITG - TNO).
Aim	:	Identification of major geohazard problems associated with land reclamation, at geoscientifically sound planning, and at policy guidelines. In addition relevant geoscience data will be gathered to be included in a data base and in a DSS.
Activities	:	<ul style="list-style-type: none"><li>- development of an organisational structure and staff technical upgrading at the MGB;</li><li>- overseas training and on-the job training;</li><li>- field surveys and production/distribution of user specific information on coastal zone environmental and geoscientific issues;</li><li>- organisation of workshops with involved groups and institutions on practices for geoscientifically sound land use planning and environmentally sustainable development of the coastal zone.</li></ul>
Philippines institute	:	Mines and Geosciences Bureau of DENR.
Netherlands institutes	:	NITG - TNO and the International Institute for Aerospace Survey and Earth Sciences.

### **3.3 Proposed sand search and environmental investigation in Manila Bay**

Proponent	:	Fugro Engineers B.V.
Aim	:	To implement a sand search for large scale land reclamation in Manila Bay.
Activities	:	<ul style="list-style-type: none"><li>- desk study;</li><li>- seafloor and geophysical seismic survey (phase 1);</li><li>- geotechnical investigation (phase 2);</li><li>- environmental investigation (optional).</li></ul>
Philippines institute	:	PEA
Netherlands institute	:	Fugro Engineers B.V.