

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)  
MUNICIPALITY OF PHNOM PENH  
KINGDOM OF CAMBODIA

NO.

# THE STUDY ON SOLID WASTE MANAGEMENT IN THE MUNICIPALITY OF PHNOM PENH IN THE KINGDOM OF CAMBODIA

## Final Report Main Report



March 2005

KOKUSAI KOGYO CO., LTD.

GE  
JR  
05-007

In this report, the project cost is estimated by using the December 2004 price and an exchange rate of US1.00 = 4,000 Riel = JP¥104.878.

## PREFACE

In response to a request from the Government of Cambodia, the Government of Japan decided to conduct a development study on Solid Waste Management in the Municipality of Phnom Penh and entrusted the study to the Japan International Cooperation Agency (JICA).

JICA selected a study team headed by Mr. Junji Anai of KOKUSAI KOGYO CO., LTD. and dispatched the team to Cambodia four times between February 2003 and January 2005.

In addition, JICA set up an advisory committee headed Dr. Hidetoshi Kitawaki, a professor of Toyo University, which examined the study from specialist and technical points of view.

The team held discussions with the officials concerned of the Government of Cambodia and conducted field surveys in the study area. Upon returning to Japan, the team prepared this final report.

I hope that this report will contribute to the implementation of this plan and to the enhancement of friendly relations between our two countries.

Finally, I wish to express my sincere appreciation to the officials concerned of the Government of Cambodia for their close cooperation extended to the study.

March 2005

Etsuo KITAHARA

Vice President

Japan International Cooperation Agency

March 2005

Mr. Etsuo KITAHARA  
Vice President  
Japan International Cooperation Agency

**Letter of Transmittal**

Dear Mr. KITAHARA,

We are pleased to submit the report of the Study on Solid Waste Management in the Municipality of Phnom Penh in the Kingdom of Cambodia.

The report consists of three components: a study on the present practices of waste management; the solid waste management master plan until the year 2015; and the feasibility of the priority projects.

The current issues have been identified by analyzing the existing data and evaluating the results of eleven kinds of surveys conducted in the study on the present practices. We set the fundamental goal of the master plan as “to establish a sustainable SWM system in the Municipality of Phnom Penh by the target year 2015” and proposed that the unserved area and insufficiently serviced area should be eliminated from the city in collaboration with the public sector and private sector. We also prepared a final disposal plan for the waste collected without having an adverse effect on the environment. Moreover, we conducted a feasibility study on the new disposal site development project, the waste collection service expansion project and the present disposal site closure project as priority projects. The validity of implementation of these projects was verified from technical, social, environmental, financial and economical points of view.

In addition to the above study, we conducted pilot projects such as improvement of the SMC disposal site, expansion of the waste collection service and a public education campaign to strengthen the capability of the counterpart for waste management. The counterpart is implementing the suggestions of the study and maintaining and developing the results of the technology transfer by themselves, which seems to be bearing fruit.

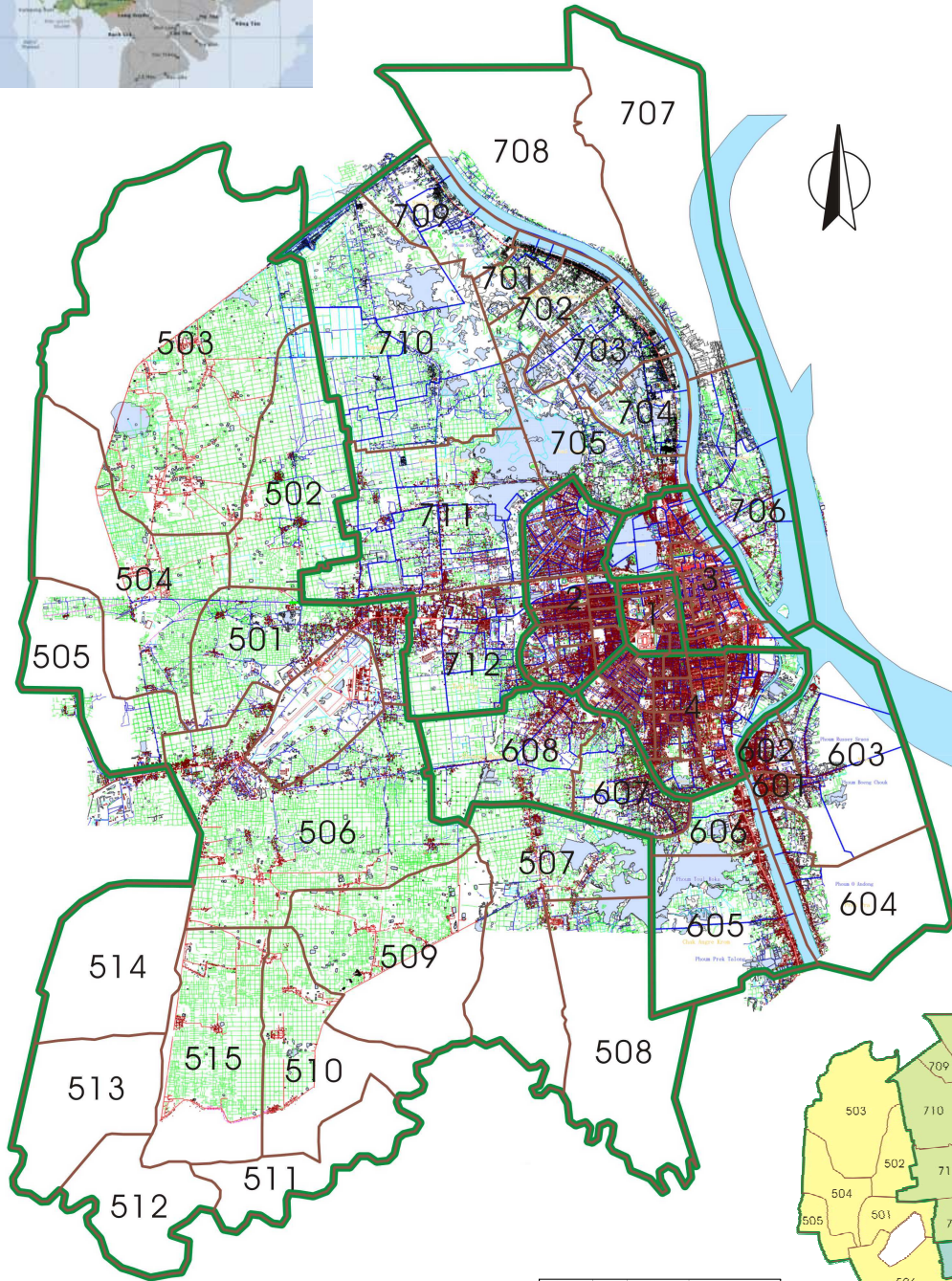
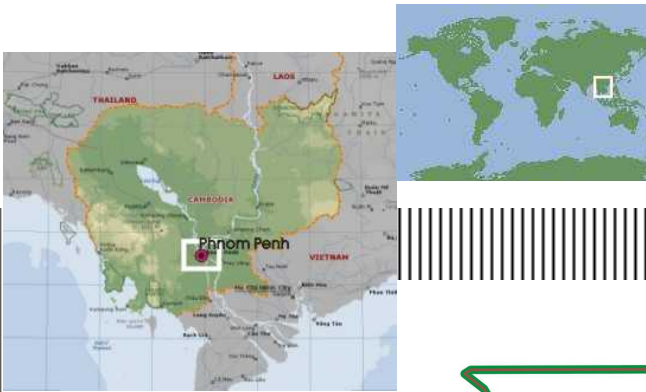
We would like to take this opportunity to express our sincere gratitude to your Agency, the Ministry of Foreign Affairs, and the Ministry of Environment of Japan. We would also like to extend our deep appreciation to the Government of Cambodia, the Embassy of Japan and the JICA Cambodia office for their vital cooperation during the implementation of the study in Cambodia.

Last but not least, we hope that the output of the study presented here will contribute to the sustainable development of not only the Phnom Penh area but the whole country.

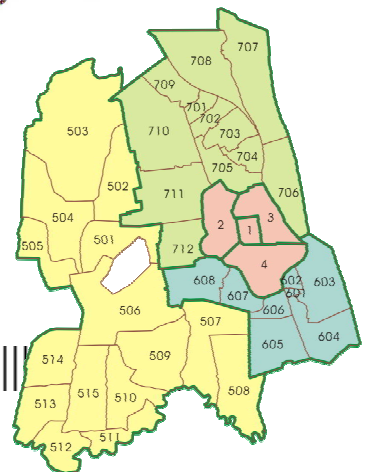
Respectfully,

Junji ANAI  
Team Leader

The Study on Solid Waste Management in the Municipality of Phnom Penh in the Kingdom of Cambodia

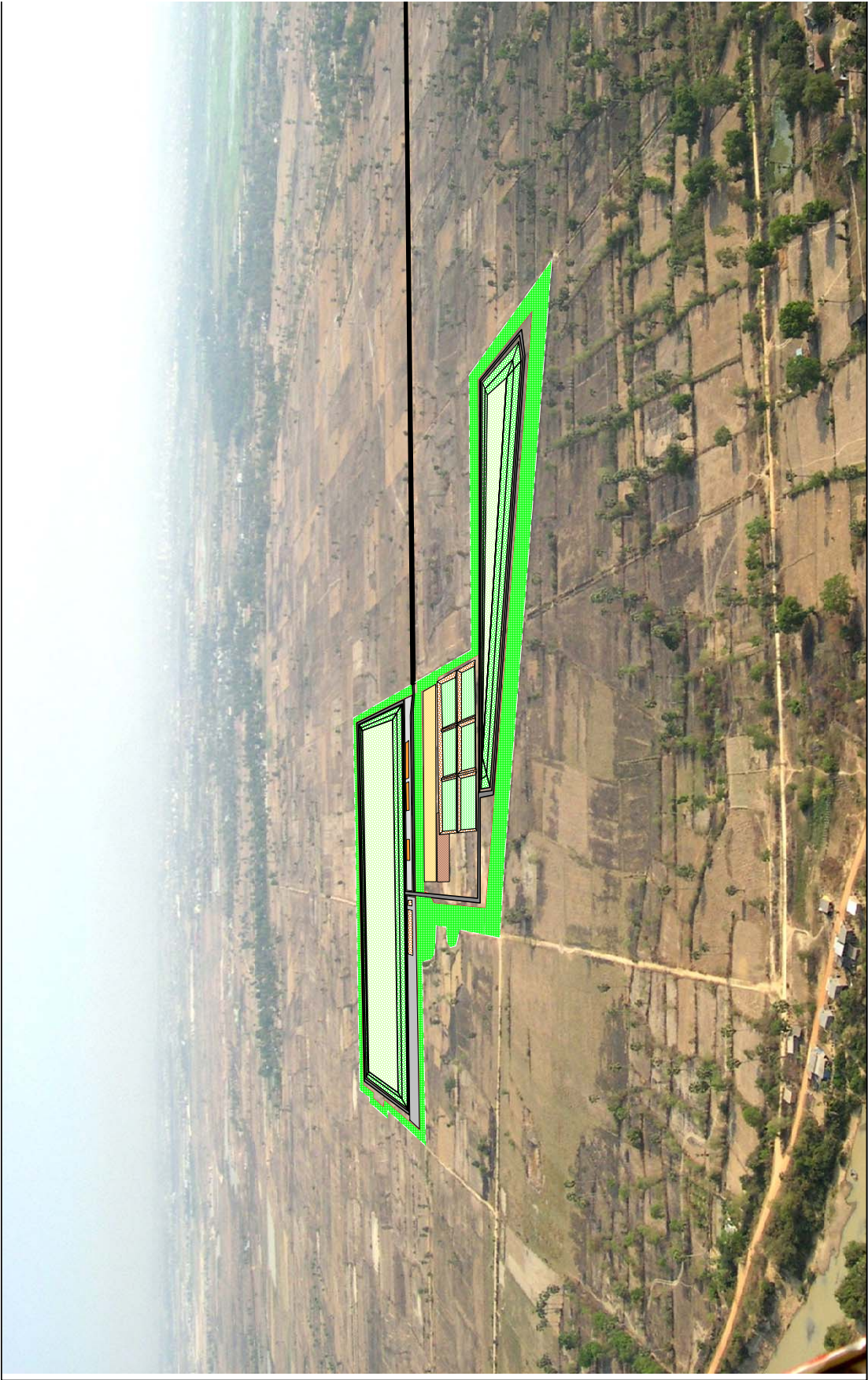


Area	Color	No.	Khan
Urban area	Light Green	1	Chamkar Mon
		2	Daun Penh
		3	Prampir Makara
		4	Toul Kork
Rural area	Light Yellow	501 - 515	Dang Kor
		601 - 608	Mean Chey
		701 - 712	Russel Keo



The Study on Solid Waste Management in the Municipality of Phnom Penh in the Kingdom of Cambodia  
**Study Area**





Bird's-eye View: Proposed Dang Kor New Disposal Site