



Japan International Cooperation Agency

**THE DETAILED DESIGN STUDY OF
THE RAILWAY ELECTRIFICATION AND
DOUBLE-DOUBLE TRACKING OF JAVA MAIN LINE PROJECT
IN INDONESIA**



**FINAL REPORT - NATURAL CONDITION SURVEY
GEOTECHNICAL INVESTIGATIONS & ANALYSIS STAGE 2
MARCH 2005**



**Pacific Consultants International
Japan Railway Technical Service**



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Japan International Cooperation Agency (JICA)
Directorate General of Land Communications (DGLC)
Ministry of Communications
Government of the Republic of Indonesia

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PREFACE

In response to the request from the Government of the Republic of Indonesia, the Government of Japan decided to conduct the Detailed Design Study of the Railway Electrification and Double-Double Tracking of Java Main Line Project in the Republic of Indonesia and entrusted the study to the Japan International Cooperation Agency (JICA).

JICA selected and dispatched a team to Indonesia between January 2002 and March 2005, which was headed by Mr. ISHIKAWA Tadashi of Pacific Consultants International (PCI).

The team conducted the study in collaboration with the Indonesian counterpart team including field surveys on the study area, and planning works, and then held a series of discussions with the officials concerned of the Government of Indonesia. Upon returning to Japan, the team duly finalized the study and delivered this report.

I hope that this report will contribute to the enhancement of friendly relationship between our two countries.

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

March 2005

MATSUOKA Kazuhisa
Vice President
Japan International Cooperation Agency

March 2005

Mr. Matsuoka Kazuhisa
Vice President
Japan International Cooperation Agency

Dear Sir,

Subject: Letter of Transmittal

We are pleased to submit herewith the Final Report of "The Detailed Design Study of the Railway Electrification and Double-Double Tracking of Java Main Line Project in the Republic of Indonesia". The report contains results of the study which was carried out by Pacific Consultants International in association with Japan Railway Technical Service between January 20, 2002 and March 24, 2005.

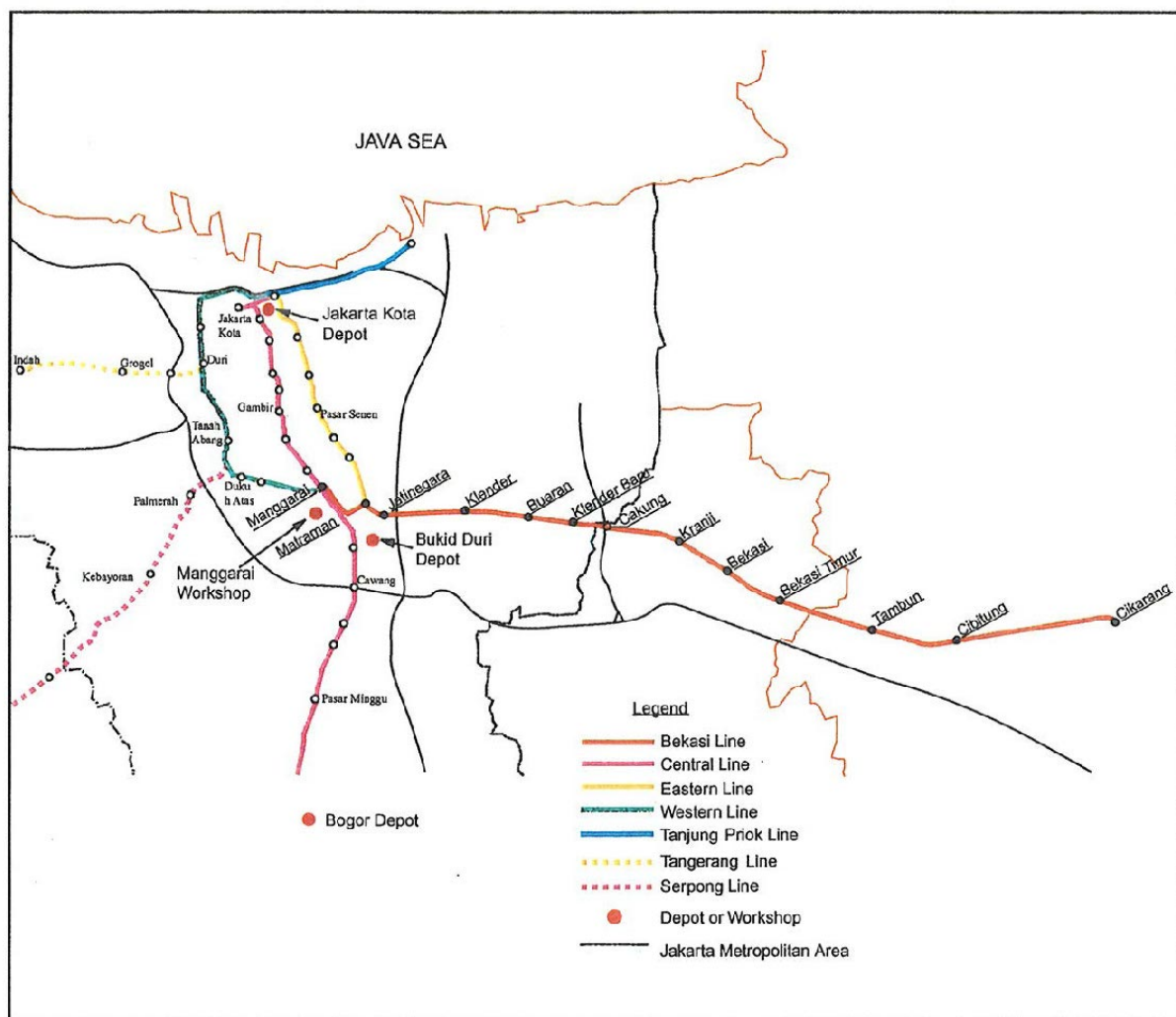
The JICA Study Team has submitted several reports to JICA and DGLC. Following discussions with the JICA Evaluation Team in June 2002 the Study Team submitted to the Government of Indonesia (GOI) the Basic Design Report. The Detailed Design for the section between Bekasi and Cikarang was submitted in March 2003, a report on a Comparison Study between "Manggarai Main Line Elevated" and "at Grade" Station was submitted in December 2003.

In order to expedite implementation of the Project, GOI has decided to reduce the land area to be acquired. Accordingly the track alignment was changed by taking 2 m from the original ROW. In a letter dated June 1, 2004, the GOI requested Government of Japan (GOJ) to review the Basic Design and to proceed with the Detailed Design based on this new land requirement. Between September 5, 2004 and March 11, 2005 JICA Study Team conducted the Basic Design and Detailed Design based on the new land plan and all results were submitted to DGLC in a Draft Final Report on February 11, 2005. Through several discussions with DGLC, the JICA Study Team explained such reports and prepared this Final Report.

We would like to express our appreciation to the personnel of JICA, DGLC and other concerned parties for their support during this long project.

Yours faithfully


Ishikawa Tadashi
Team Leader JICA Study Team



LOCATION MAP



MANGGARAI STATION



BEKASI STATION