

Japan International Cooperation Agency (JICA)
National Development Planning Agency (BAPPENAS)
Republic of Indonesia

**THE STUDY
ON
INTEGRATED TRANSPORTATION MASTER PLAN
FOR
JABODETABEK (PHASE II)**

**FINAL REPORT
SUMMARY REPORT**

MARCH 2004

PACIFIC CONSULTANTS INTERNATIONAL
ALMEC CORPORATION

The foreign exchange rates applied in this study are:

< Master Plan Study >
USD\$1.00 = Rp. 8,900
USD\$1.00 = Yen 118.00
(As of January 2003)

< Pre Feasibility Study >
USD\$1.00 = Rp. 8,500
USD\$1.00 = Yen 109.08
(As of October 2003)

PREFACE

In response to a request from the Government of the Republic of Indonesia, the Government of Japan decided to conduct the Study on Integrated Transportation Master Plan for Jabodetabek (Phase 2) and entrusted the Study to the Japan International Cooperation Agency (JICA).

JICA selected and dispatched the Study team headed by Mr. Tomokazu Wachi of Pacific Consultants International Co., Ltd. and consisting of members from Pacific Consultants International Co., Ltd. and Almec Corporation to the Republic of Indonesia between November 2001 and March 2004. In addition, JICA set up an Advisory Committee headed by Dr. Haruo Ishida, Professor of Tsukuba University between November 2001 and March 2004, which examined the Study from the specialist and technical points of view.

The Study team held discussions with the officials concerned of the Government of the Republic of Indonesia and conducted field surveys in the Study area. Upon returning to Japan, the Study team conducted further studies and prepared this final report.

I hope that this report will contribute to development in the Republic of Indonesia, and to the enhancement of friendly relationship between our two countries.

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

March 2004

Kazuhisa Matsuoka
Vice President
Japan International Cooperation Agency

March 2004

Mr. Kazuhisa Matsuoka
Vice President
Japan International Cooperation Agency
Tokyo, Japan

Letter of Transmittal

Dear Sir,

We are pleased to submit herewith the Final Report of the Study on Integrated Transportation Master Plan for Jabodetabek (Phase 2).

The Study was undertaken in the Republic of Indonesia from November 2001 through March 2004 by the Study team organized by Pacific Consultants International in association with Almec Corporation under the contract with JICA.

The Summary report presents all the tasks of the Phase 2 Study and recommendations on the integrated transportation master plan as well as major findings of the four pre-feasibility studies. Volume 1 of the Main Report first identifies the present urban transportation problems and issues. The urban transportation policies and strategies are then presented based on the understanding on the current situation and the integrated transportation master plan is established. Volume 2 of the Main Report explores the viability of four priority projects selected from the master plan.

We would like to express our sincere gratitude and appreciation to all the officials of your agency and the JICA Advisory Committee. We also would like to send our great appreciation to all those who were extended their kind assistance and cooperation to the Study, in particular, National Development Planning Agency (BAPPENAS) as the counterpart agency and counterpart personnel who assisted the Study team.

We hope that the result of this study will contribute to urban transportation development in Jabodetabek.

Very truly yours,

Mr. Tomokazu Wachi
Team Leader, JICA Study Team
The Study on the Integrated Transportation Master
Plan for Jabodetabek (Phase 2)



LEGEND :

	Arterial Road
	Primary Collector 1-3
	Primary Local
	Secondary Arterial
	Existing Toll Road
	JORR Plan (On-going)
	JORR Plan
	Rail Road
	Kabupaten / Kota Boundary

STUDY AREA

SITRAMP JABODETABEK
 The Study on
 Integrated Transportation Master Plan
 for
 Jabodetabek
 (Phase 2)

0 5 10 15 20 25 30

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Abbreviation/Acronyms and Glossary

<u>Abbreviation/Acronyms</u>	<u>English</u>
ADB	Asian Development Bank
AMDAL	Environmental Impact Assessment (EIA)
APBN	National Budget
AQMS	Air Quality Monitoring System
ARSDS	Arterial Road System Development Study
ASEAN	Association of Southeast Asian Nations
ATC	Automatic Traffic Control
ATO	Automatic Train Operation
ATP	Automatic Train Protection
ATS	Automatic Train Stop
BAKOSURTANAL	Coordinating Body for Survey and National Charting Development Board
BAPEDAL	Environmental Impact Management Agency
BAPEDALDA	Regional Environmental Impact Management Agency
BAPPEDA	City Planning Bureau
BAPPEDA	City's Development Planning Board
BAPPENAS	National Development Planning Agency
BOPUNJUR	Bogor-Puncak-Cianjur
BOT	Build Operate Transfer
BOTABEK	Bogor, Tangerang, Bekasi
BPN	National Land Agency
BPN	National Land Agency
BPPT	Agency for the Assessment and Application of Technology
BPS	Central Bureau of Statistics
CAP	Clean Air Project
CBD	Central Business District
CCTV	Central Control TV
CGI	Consultative Group on Indonesia (was IGGI)
CPI	Consumer Price Index
CTC	Centralized Traffic Control
DAMRI	State-run bus company
Daop - 1	1st Railway Operating Division
Daop Jabotabek	Jabotabek Railway Operating Division

<u>Abbreviation/Acronyms</u>	<u>English</u>
dBA	Decibel (Noise Level)
DGLC	Directorate General of Land Communications
DGLT	Directorate General of Land Transport
DINAS	Autonomous agency offices under the governor or mayor/regent
DKI Jakarta	Special Capital City Jakarta
DLLRJ	City Land Transportation Agency
DPU	Public Works Agency
EIA	Environmental Impact Assessment
EIRR	Economic Internal Rate of Return
FIRR	Financial Internal Rate of Return
FY	Fiscal Year
GAIKINDO	Dealer and Motor Vehicle Makers
GDP	Gross Domestic Product
GIS	Geographic Information System
GNP	Gross National Product
GOI	Government of Indonesia
GOJ	Government of Japan
GRDP	Gross Regional Domestic Product
HBO	Home Based Other
HBS	Home Based School
HBW	Home Based Work
HOV	High Occupancy Vehicle
I & M	Inspection and Maintenance
IBRA	Indonesian Bank Restructuring Agency
IC	Interchange, Intersecting Tollway Facility with non tollway
IMF	International Monetary Fund
IRR	Internal Rate of return
ITS	Intelligent Transport System
Jabotabek	Jakarta, Bogor, Tangerang and Bekasi
JABODETABEK	Jakarta-Bogor-Depok-Tangerang-Bekasi (Greater Jakarta)
BKSP Jabotabek	Jabotabek Development Cooperation Agency
JBIC	Japan Bank for International Cooperation
JC	Junction, Intersecting Facility between tollway
JICA	Japan International Cooperation Agency
JKT	Jakarta

<u>Abbreviation/Acronyms</u>	<u>English</u>
Jl.	Street
JMDP	Jabotabek Metropolitan Development Plan
JMDPR	Jabotabek Metropolitan Development Plan Review
JMTSS	Jakarta Mass Transit System Study (GTZ)
JORR	Jakarta Outer Ring Road
JUDP	Jabotabek Urban Development Project
Kab.	Kabupaten/Regency
Kec.	Kecamatan
Kel.	Kelurahan
Kimpraswil	Ministry of Settlement and Regional Infrastructure
LEV	Less Emission Vehicles
LNG	Liquid Natural Gas
LPG	Liquid Petroleum Gas
LRT	Light Rail Transit
MENLH	Ministry of Environment
MHA	Ministry of Home Affairs
MOC	Ministry of Communication
MRT	Mass Rapid Transit
NGO	Non Government Organization
NHB	Non-Home Based
NHBB	Non-Home Based Business
NHBO	Non-Home Based Others
NJOP	Selling Value of Tax Object
NO _x	Nitrogen Oxide
NPV	Net Present Value
O & M	Operations and Maintenance
OD	Origin Destination
PANTURA	The North Coastal Area
PATAS	Limited Express Bus
PATAS AC	Limited Express Bus with Air Condition
Pb	Lead
PCU	Passenger Car Unit
Pertamina	State-owned Company for Oil and Gas Production
PERUMNAS	State Housing Company
PLN	Perusahaan Listrik Negara, state-owned electricity company

<u>Abbreviation/Acronyms</u>	<u>English</u>
Propenas	The New National Development Program
PT. KA	Indonesian Railway Company
PU	Public Works
Repelita	The five-year National Development Plan
ROW	Right of Way, Border of a road or the area occupied by a road
Rp.	Indonesian Rupiah
RT	Neighborhood association, the lowest administrative unit
RTRW	Regional Spatial Structure Plan
RTRWN	National Regional Spatial Structure Plan
RW	Administrative unit at the next-to-lowest in city, consisting several RTs
SITRAMP	Study on Integrated Transport Master Plan for JABODETABEK
SO ₂	Sulphur Dioxide
Sta.	Station
TDM	Transportation Demand Management
TOD	Transit Oriented Development
TOR	Terms of Reference
TSP	Total Suspended Particles
VAT	Value Added Tax
VOC	Vehicle Operating Cost
WB	The World Bank
WHO	World Health Organization