

**JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)  
ETHIOPIAN TELECOMMUNICATIONS CORPORATION (ETC)**

**THE STUDY  
ON  
TELECOMMUNICATIONS DEVELOPMENT PLAN  
IN  
THE FEDERAL DEMOCRATIC REPUBLIC OF ETHIOPIA**

**Volume III**

**FEASIBILITY STUDY**



**FINAL REPORT**

**December 2002**

**PANTEL INTERNATIONAL CO., LTD.**

**YACHIYO ENGINEERING CO., LTD.**

**CURRENCY AND EQUIVALENT UNITS**

**As of August 2002**

Currency Unit

US\$1.00 = Birr 8.56 (Ethiopian Birr)

US\$1.00 = Yen 120 (Japanese Yen)

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## PREFACE

In response to a request from the Government of the Federal Democratic Republic of Ethiopia, the Government of Japan decided to conduct the Study on Telecommunications Development Plan and entrusted the study to the Japan International Cooperation Agency (JICA).

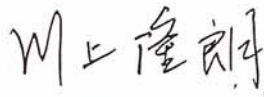
JICA selected and dispatched the study team headed by Mr. Ryoji Sasaki of Pantel International Co., Ltd. (consisting of Pantel International Co., Ltd. and Yachiyo Engineering Co., Ltd.) to Ethiopia, three times between March 2001 and November 2002. In addition, JICA set up the advisory committee headed by Mr. Takashi Miyashita, Senior Advisor, International Cooperation Division, Telecommunications Bureau, Ministry of Public Management, Home Affairs, Posts and Telecommunications between November 2001 and December 2002.

The team held discussions with the officials concerned of the Government of the Federal Democratic Republic of Ethiopia, and conducted field surveys at the study area. Upon returning to Japan, the team conducted further studies and prepared this final report.

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

Finally, I wish to express my sincere appreciation to the officials concerned of the Government of the Federal Democratic Republic of Ethiopia for their close cooperation extended to the Study.

December 2002



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Takao Kawakami

President

Japan International Cooperation Agency

Mr. Takao Kawakami  
President  
Japan International Cooperation Agency

December 2002

Dear Mr. Kawakami:

Letter of Transmittal

It is our great pleasure to submit to you the Final Report on the Study on Telecommunications Development in the Federal Democratic Republic of Ethiopia with cooperative efforts of Ethiopian Telecommunications Corporation and other parties concerned. The report has been prepared for the Government of the Federal Democratic Republic of Ethiopia to contribute to the telecommunication development in the country.

This report has been prepared by PANTEL INTERNATIONAL CO., LTD. and YACHIYO ENGINEERING CO., LTD, based on the contract with JICA. The study team conducted the work from November 2001 to December 2002.

The study aims at formulating the master plan for telecommunications development up to the year 2020 and feasibility study for priority projects which will be implemented by the year 2005 in the Federal Democratic Republic of Ethiopia.

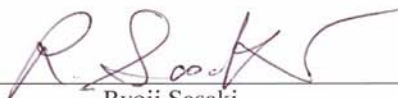
Objective areas of the study are the whole country for the master plan and several target areas for the feasibility study. Through field surveys and analyses of data/information collected, the master plan has been drawn up covering mainly development targets and strategies including sector business strategy, network development plan, implementation plan, operation/maintenance plan, organization and human resource development plan as well as cost estimate and project evaluation. The feasibility study has been carried out for three priority projects identified as the result of the master plan study.

The report consists of five volumes: the Summary, Master Plan, Feasibility Study, Supporting Report and the Data Book. The Summary presents the outline of the study results, and the Master Plan/ Feasibility Study Reports give all the Study results regarding telecommunication development. The Supporting Report describes the detailed study results, data and information referred during the study period, and detailed data for cost estimation. The Data Book presents the detailed data referred in the main report.

I wish to take this opportunity, on behalf of the Study Team, to express our deep gratitude to the officials concerned of the Japan International Cooperation Agency and other authorities concerned of the Government of Japan for providing valuable comments and suggestions. The Study Team wishes to offer our sincere appreciation to the officials concerned of Ministry of Finance and Economic Development, Ethiopian Telecommunications Corporation, and other authorities concerned of the Government of Ethiopia for their unlimited cooperation and assistance extended to the study team.

Finally, The Study Team earnestly hopes that this report will contribute to future telecommunications development in the Federal Democratic Republic of Ethiopia.

Sincerely yours,



Ryoji Sasaki  
Team Leader

Study on Telecommunications Development Plan  
in the Federal Democratic Republic of Ethiopia

The Study on Telecommunications Development Plan  
in  
The Federal Democratic Republic of Ethiopia

Composition of the Reports

- VOLUME I    SUMMARY**
- VOLUME II    MASTER PLAN**
- VOLUME III    FEASIBILITY STUDY**
- VOLUME IV    SUPPORTING DOCUMENTS FOR MASTER PLAN**
- VOLUME V    DATA FILE FOR MASTER PLAN**



