

2010

Annual Evaluation Report

JICA

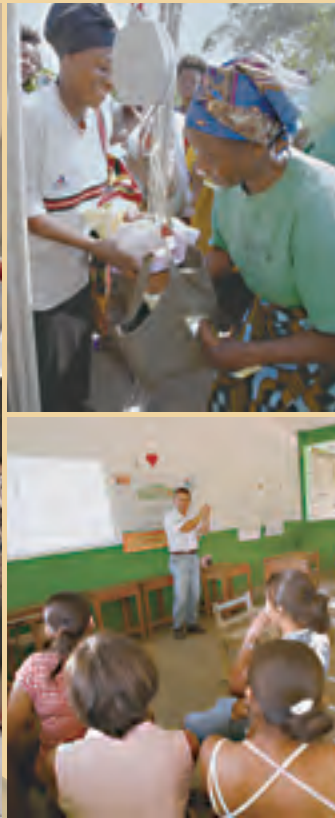
Inclusive and Dynamic Development

Japan International Cooperation Agency

EVD
JR
11-02

2010 JICA

Toward Inclusive and Dynamic Development



Photographs by:
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PREFACE

Project evaluation is a key component of JICA's overall development strategy, particularly in an era of increasingly complex operational and full public disclosure requirements.

In a 2008 major restructuring of Japan's Official Development Assistance 'new' JICA for the first time became responsible for implementing the three major components of ODA: technical cooperation, ODA loans and grant aid.

In this more exacting development environment it has become increasingly important to evaluate and accurately assess the impact and effectiveness of the organization's projects which have been undertaken in 147 countries and regions.

Such evaluations provide invaluable 'lessons learned', recommendations for improving future projects and by making such reports more accessible to key stakeholders such as the general public will help ensure their fuller understanding and support.

I trust this Annual Evaluation Report 2010, highlighting ex-post evaluations conducted by external evaluators, will provide a clear understanding of JICA's aims and activities and ensure your continued support and encouragement.

March 2011
Sadako Ogata, President
Japan International Cooperation Agency

A handwritten signature in black ink, reading "Sadako Ogata".

Part 1

Project Evaluation in JICA

Chapter 1. What is JICA's Evaluation System?

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Chapter 3. Topics

A variety of organizations and groups including governments, international organizations, NGOs, and private companies carry out economic cooperation to support socio-economic development in developing countries. Financial and technical cooperation extended by governments for development purposes is called Official Development Assistance (ODA). ODA is classified into two types: bilateral aid and multilateral aid (investment and contributions provided to international organizations).

Among Japan's ODA, JICA provides bilateral aid in the form of Technical Cooperation, ODA Loans, and Grant Aid* in an integrated manner. Part 1 describes the evaluation system for these projects of JICA and efforts to improve the system.

★An overview of JICA's programs is available on the JICA website:

<http://www.jica.go.jp/english/index.html>

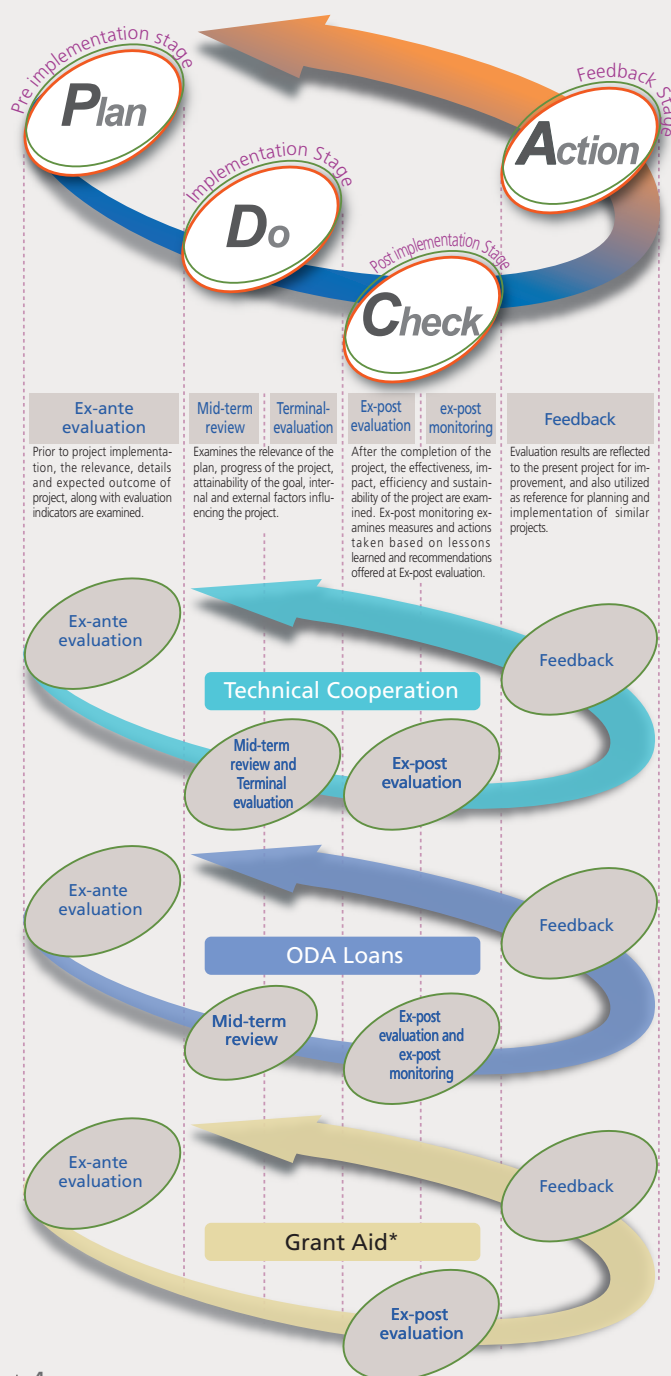
* Excluding those directly implemented by the Ministry of Foreign Affairs.

The Evaluation System in JICA

In an effort to improve its projects and ensure accountability to the Japanese tax payers, JICA has introduced an evaluation system that will apply to each and every project, based on a PDCA (Plan, Do, Check and Action) cycle.

1 Consistent throughout the project by reflecting project's PDCA cycle

The PDCA cycle is a management cycle that promotes the continuous improvement of project activities. It has four steps; Plan, Do, Check and Action. For all projects, regardless of the schemes of the assistance, JICA's evaluation is conducted based on the PDCA cycle. Considering the characteristics of the scheme of assistance, such as the assistance period and timeframe for expected results, JICA conducts the evaluation within a consistent framework at each stage of the project (planning, implementation, post-implementation and feedback). By conducting the evaluation at each stage of the PDCA cycle, it aims to improve the development results of the project. Evaluation details at each stage shall be introduced from page 6 onwards.



2 Coherent methodologies and criteria for all three schemes of assistance

JICA has developed an evaluation system that provides cross-sectoral methodologies and criteria applicable to all schemes of assistance. With JICA taking over a part of the evaluation of Grant Aid in FY2009, it continues to focus on establishing a consistent evaluation system applicable to all three assistance schemes.

JICA aims to conduct the evaluation and to utilize the findings based on a consistent philosophy and a standard evaluation framework, while it takes into consideration the characteristics of each assistance scheme.

Specifically, an evaluation framework that reflects: 1) Project-level evaluation based on the PDCA cycle, 2) Evaluation applying the DAC Criteria for evaluating development assistance laid out by OECD-DAC (Organization for Economic Co-operation and Development/ Development Assistance Committee) and internationally accepted as ODA evaluation method, and 3) Publication of evaluation results based on a standard rating system.

Evaluation perspective applying the five DAC criteria

Relevance

Examines the extent to which the aid activity is suited to the priorities and policies of the target group, recipient and donor: Does the goal of the aid activity meet the needs of beneficiaries? Are the activities and outputs of the program consistent with the overall goal and the attainment of its objectives?

Effectiveness

Measures the extent to which a program or a project attains its objectives.

Efficiency

Measures the outputs in relation to the inputs to determine whether the aid uses the least costly resources possible to achieve the desired results.

Impact

Examines positive and negative changes as a result of the project. This includes direct and indirect effects and expected and unexpected effects.

Sustainability

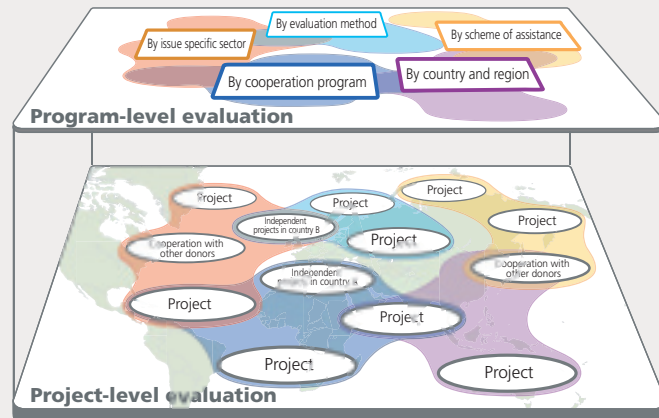
Relates to whether the benefits of the project are likely to continue after the closure of the project.

Evaluation system in JICA has 5 features shown on the right.

- 1 Consistency throughout the project by reflecting the PDCA cycle
- 2 Coherent methodologies and criteria for all three schemes of assistance
- 3 Cross-sectoral and comprehensive evaluation offered at program-level evaluation
- 4 Ensuring objectivity and transparency
- 5 Emphasizing use of evaluation results

3 Cross-sectional and comprehensive evaluation offered at program-level evaluation

DAC defines program evaluation as “evaluation of a set of interventions, marshaled to attain specific global, regional, country, or sector development objectives.” Program evaluation is a comprehensive and cross-sectional evaluation and analysis of multiple projects, grouped together according to a specific development issue (e.g., primary education, maternal health) or type of cooperation (e.g., community empowerment program, emergency disaster relief program). The goal of evaluating individual projects under a common theme by specific viewpoint into derive recommendations and lessons learned which can be shared across projects. In addition to specific development issues and type of cooperation, in future evaluations JICA will evaluate projects based on country, region, and assistance methodology. JICA will also be taking steps to evaluate “cooperation programs”, which are part of a strategic framework to support developing countries achieve specific mid- and long-term development objectives.



4 Ensuring objectivity and transparency

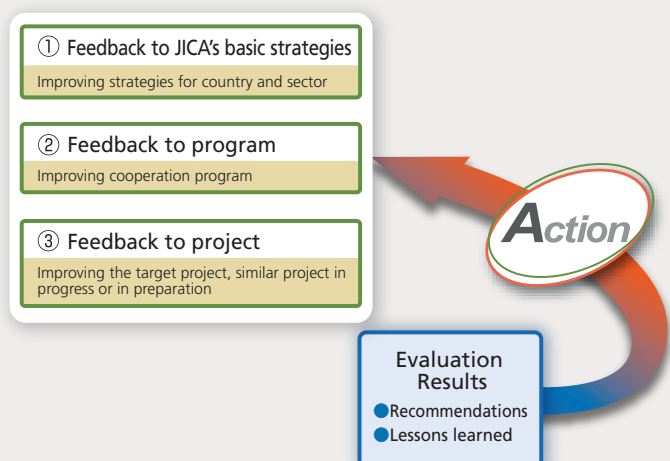
JICA has incorporated external evaluations in the ex-post evaluations which require objective verification of project implementation results for all three schemes of assistance, and the findings are made available on the JICA website. JICA will continue its efforts for increasing objectivity and transparency in its evaluations.

JICA has set up mechanisms by which the viewpoints of external parties are reflected in the project evaluation system. In this context, JICA receives advice on evaluation policy, as well as on the evaluation system and methodology from the Advisory Committee on Evaluation consisting third-party experts. (See p.8)

5 Emphasize utilization of evaluation results

JICA is strengthening its feedback system. The findings from each evaluation stage are reflected in the “Action” phase within the PDCA cycle. This feedback is utilized as recommendations for improvement of the present project and lessons learned for similar projects that are in operation or in preparation. JICA intends to reflect evaluation results on the cooperation programs as well as JICA’s basic strategies for country and sector.

At the same time, JICA makes efforts to reflect evaluation results to the project, program and upper level plan, such as the partner government’s development policies, through providing feedback of evaluation findings to the partner government and conducting joint evaluation.



Evaluation results are published at JICA’s website. <http://www.jica.go.jp/english/operations/evaluation/>

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■ Pre implementation stage Evaluation (Ex-ante Evaluation)

In order to determine the necessity of the project as well as to set targets for outcome, JICA conducts ex-ante evaluation and publishes the results in "Ex-ante Evaluation Report".

JICA conducts ex-ante evaluations prior to project implementation to verify the relevance and effectiveness of the project as well as the content of project.

The results from ex-ante evaluation will be reflected to the decision-making for project implementation and project contents. Once the project starts running, subsequent evaluations are conducted using the evaluation design and indicators set at the time of the ex-ante

evaluation.

JICA conducts ex-ante evaluation for all projects to confirm the relevance of projects prior to their implementation, as well as to formulate the future evaluation plans. At this stage, JICA ensures that past lessons learned are being applied appropriately. These evaluation findings are published on the JICA website following the conclusion of the respective project agreement with the partner country.

■ Number of Ex-ante Evaluations Performed in FY2009

ODA Loans	60 projects	Technical Cooperation	139 projects	Grant Aid	85 projects
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More information is available on the JICA website:

<http://www.jica.go.jp/english/operations/evaluation/index.html>

■ Implementation stage Evaluation (Mid-term Review and Terminal Evaluation)

Mid-term reviews and terminal evaluations are conducted in order to assess relevance of the project plan, attainability of goals and effectiveness, and to examine internal and external factors affecting the projects.

JICA conducts mid-term review and terminal evaluation for ongoing projects. These are intended to examine the relevance, progress, attainability of goals and the internal and external factors. The results from these will be utilized in revising the project plan and project management system, and decision-making on the termination or continuation of projects. Lessons learned from the evaluation will be used for the improvements of similar projects in the future.

Mid-term reviews are conducted on relatively long-term projects after a lapse of time from the project launch, the purpose is to examine the relevance and to verify attainability of its goals in terms of effectiveness and efficiency, as well as to analyze the promoting factors and project obstacles and their respective trends. The results from this evaluation would be applied to project plan revisions. As regards ODA Loan projects

including large and complex civil engineering work, a mid-term review (safety measure) is also conducted to confirm the status of the safety measures for special ODA Loan projects and Special Terms for Economic Partnership (STEP) projects.

Terminal Evaluation is conducted about six months prior to project termination. The purpose is to examine the attainability of project outcome, efficiency and sustainability, so that JICA can draw up the project plan of the remaining period with the recipient's government and decide the prospects of terminating the project and/or necessary follow-ups in the future. This is the evaluation and monitoring scheme unique to Technical Cooperation projects where effectiveness is verifiable during the implementation phase.

■ Number of Mid-term Reviews and Terminal Evaluations Performed in FY2009

ODA Loans (Mid-term Review)	2 projects	Technical Cooperation(Mid-term Review)	75 projects
		Technical Cooperation(Terminal Evaluation)	114 projects

More information is available on the JICA website:

<http://www.jica.go.jp/english/operations/evaluation/index.html>

Post implementation stage Evaluation (Ex-post Evaluation and Ex-post Monitoring)

JICA performs Ex-post Evaluation and Ex-post Monitoring in order to evaluate terminated projects comprehensively and monitor if effectiveness, sustainability and impact continue to materialize after the project termination.

JICA performs ex-post evaluation and ex-post monitoring after project termination. Comparing with other evaluation schemes, evaluations at post implementation stage place more importance on the aspect of accountability, therefore "External Evaluation" is encouraged.

The lessons learned and recommendations gathered from these evaluations will be applied towards improving the target project, as well as to the planning and implementation of similar projects in the future.

All three assistance schemes are subject to ex-post evaluation, of which there are two types: detailed (in principle projects over 1 billion yen) and simplified (projects over 200 million yen and under 1 billion yen) (see p.18 and onwards for more information). After the completion of each project, JICA conducts a comprehensive evaluation using the DAC

Criteria for evaluating development effectiveness. One distinctive feature of the detailed ex-post evaluation is the application of a standardized rating system* for all three schemes in order for the published results to be easily understood. Since FY2009, JICA has introduced an integrated rating methodology that used to be different by scheme.

Ex-post monitoring is usually conducted 7 years after project completion of Japanese ODA Loan projects, where there were concerns in project effectiveness and its sustainability as the results from ex-post evaluation. It re-examines the effectiveness, impact, and sustainability as well as monitors the progress from recommendations drawn from the ex-post evaluation phase. Through these, it aims to extract lessons learned and recommendations necessary for the project impact to be sustained and improved as a whole.

Number of Evaluation Performed in 2009

ODA Loans	(detailed) 61 projects	Technical Cooperation	(detailed) 7 projects (simplified)39 projects	Grant Aid	(detailed) 17 projects (simplified)51 projects
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More information is available on the JICA website:URL:

Ex-post evaluation (Technical Cooperation): http://www.jica.go.jp/english/operations/evaluation/tech_and_grant/project/ex_post/index.html

Ex-post evaluation (ODA Loan): http://www.jica.go.jp/english/operations/evaluation/oda_loan/post/index.html

Ex-post monitoring (ODA Loan): http://www.jica.go.jp/english/operations/evaluation/oda_loan/monitoring/index.html

Ex-post evaluation (Grant Aid): http://www.jica.go.jp/english/operations/evaluation/grant_aid/post/index.html

Program-level Evaluation

JICA conducts comprehensive evaluation and analysis on JICA's cooperation in relation to a specific theme or development goal, and the evaluation results are utilized for future cooperation planning and implementation to be more effective.

JICA performs program-level evaluation to comprehensively evaluate its cooperation in relation to specific themes or development goals. From this evaluation, the common recommendations and lessons learned are extracted by theme or goal and utilized for project implementation and future project planning. Program-level evaluation includes "Cooperation program evaluation" and "Thematic Evaluation".

"Cooperation program evaluation" is conducted on "Cooperation programs" which are strategic frameworks for JICA to assist developing countries achieving their specific mid to long term development goals.

"Thematic evaluation" is conducted based on a specific theme, such

as region, sector, and assistance methodology, and those of related projects are evaluated with the evaluation standard set for specific theme. This includes "Comprehensive analysis", which extracts trends and problems common to a particular issue, or compares several projects and categorizes them to extract common features and good practices. Comprehensive analysis and examination of evaluation results make it possible to obtain the recommendations and lessons learned relating to the specific theme. Moreover, JICA conducts the evaluation based on evaluation methodologies in order to develop a new evaluation methodology.

ODA Loans	Technical Cooperation
<ul style="list-style-type: none"> ● Impact Evaluation on Small Scale Irrigation Project (Indonesia) ● Impact Evaluation on Third Elementary Education Project (Philippines) ● Impact Evaluation on Bohol Irrigation Project (Philippines) ● Impact Evaluation of Pasak Irrigation Project (Thailand) 	<ul style="list-style-type: none"> ● Thematic Evaluation on JICA's role in Citizen Participation in International Cooperation

More information is available on the JICA website:

http://www.jica.go.jp/english/operations/evaluation/tech_and_grant/program/index.html

*See p.18 and onwards for outline and method for rating system.

Advisory Committee on Evaluation

JICA has set up the Advisory Committee on Evaluation to obtain advice on project evaluation. The recommendations from the Committee are fed back into the evaluation system and method for further improvement.

In July 2010, JICA reorganized the Committee in order to better ensure evaluation accountability, enhance the quality of evaluations, and strengthen feedback of the evaluation results.

The Committee, chaired by Shinji Asanuma, Visiting Professor at the

School of International and Public Policy, Hitotsubashi University, includes experts in international aid and evaluation from international organizations, academia, NGO, media, and private sector groups.

Below is an outline of the expert advice provided from the Committee members during the first and second meetings convened in 2010. The wide range of advice will help JICA to further improve project evaluations.

From the 1st Meeting

1) Enhancing quality of evaluations

- ODA projects should not be evaluated against today's criteria if project environment or objective has changed from the time of implementation.
- It is not appropriate to apply same evaluation methods to different types of aid modalities, such as technical cooperation, micro credit, and loans.
- Given the large number of projects that JICA operates, an "evaluation strategy" is needed for JICA to review the breadth and depth of its evaluation activities.
- Selection and concentration is the key to enhance quality of evaluations. Possibilities include evaluating overall plans or programs of developing countries, evaluating executing agencies, or evaluating projects grouped by sector/project type.
- As there are a wide range of studies and papers available to public, JICA can apply these research findings to its project evaluation with the cooperation of the JICA Research Institute as well as external researchers.
- JICA should facilitate the use of human resources of overseas research

institutes, think tanks, etc.

2) Strengthening feedback

- If a project is off-track at the time of monitoring or mid-term evaluation, necessary adjustments should continue to be made wherever feasible.
- A mechanism is needed for a project to reflect findings of rigorous evaluation during transition from phase 1 to phase 2.

3) Ensuring accountability

- Ensuring accountability and strengthening the feedback mechanism are different and therefore need to be examined separately.
- Feedback should be directed at different actors, depending on who takes responsibility for project success/failure.
- The contents of evaluation reports need to be divided into those that are easy to understand for the general audience and those aimed at experts.
- Beneficiary evaluations that are conducted by beneficiaries should be implemented, and the findings should be disclosed to the public. External evaluations should be conducted as secondary evaluations afterwards.

From the 2nd Meeting

1) Enhancing quality of evaluations

- If the number of ex-post evaluations is not decreased, measures to lessen the work burden, including a detailed manual, should be developed.
- The framework of detailed evaluation leaves more space for selection and concentration. Some of the projects over one billion yen may be assessed based on existent evidences and therefore may not require extra survey or analysis.
- The evaluation system of the three schemes should be consistent, while the analysis method should correspond with the characteristics of each project.
- It is highly welcome that field offices with in-depth knowledge about the local situation are in charge of the evaluations. Budget should allow for use of local human resources, including local consultants, for the implementation of evaluations.

2) Strengthening feedback

- New progress was made: Launch of project evaluation database on website and disclosure of external evaluation reports.

3) On the Analysis of FY2009 ex-post evaluation findings and the overview of the draft Annual Evaluation

Report 2010

- There are gaps in interpretation of evaluation findings between the general public and ODA experts. Providing a sufficient explanation of Japan's vital role in international community for achievement of MDGs as well as implementation status of projects under difficult constraints, will contribute to deepen public understanding.
- The benchmark for the overall ratings, flowchart, and explanation of evaluation results can be made a little clearer.
- Analysis of relevance is insufficient. Evaluations should confirm not only consistency with policies, but also consistency with strategies in line with the country's current situation.
- As private consultants, it is desirable that JICA will further strengthen the mechanism of sharing evaluation findings.

4) Way forward (from JICA Evaluation Department)

- As a member of DAC, we will continue to use the internationally required methods of evaluation. We would like to improve the way the ratings are illustrated.
- Regarding the representation of evaluation findings, we would like to explore ways of presenting them more visually, including other media than the Annual Evaluation Report.

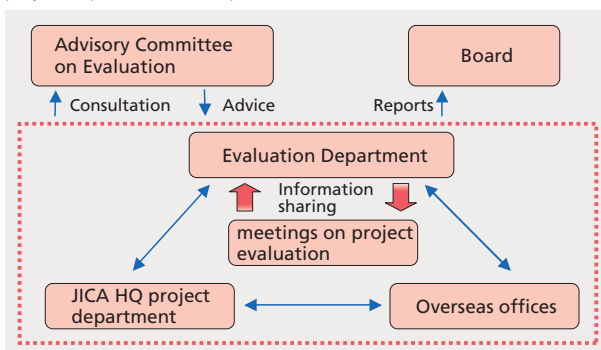
Improving the Evaluation System

In order to improve project management and increase development impact, JICA is taking steps to improve its evaluation system. In particular, priority is placed on strengthening feedback by making use of lessons learned and recommendations from evaluation findings and improving accountability through evaluations.

Approach 1 Strengthening feedback

Strengthening information sharing between evaluation and project implementation departments

To improve projects, the feedback of lessons learned and recommendations from evaluation findings into follow-on and similar projects is important. In order to further strengthen information sharing between the evaluation and project implementation departments, meeting on project evaluation was newly introduced at JICA. The meeting in principle is held twice a year to share information and exchange opinions on project evaluation between the evaluation and project implementation departments.



Improving evaluation quality and promoting use of evaluation findings

To conduct evaluations in line with project needs and increase the evaluation-related knowledge and capacity of staff and stakeholders, JICA does the following:

1. Address new evaluation needs

JICA is developing new evaluation methods to improve project management and impact (e.g., cooperation program evaluation method and impact evaluation method [see p.11]) and is applying them in practice.

2. Reinforce the evaluation capacity of staff

To promote the use of the New JICA Project Evaluation Guideline, which outlines the project evaluation system and method of JICA since its merger, JICA has created multimedia materials for the guideline (Japanese, English, and Spanish). It also held distance learning seminars on project evaluation (Japanese, English, Spanish, and French) for Japanese and national staffs of JICA's field offices.

In addition, in August 2010, special training was held for JICA staff engaged in evaluation work. The lecture given by an outside instructor on "social survey methods for gauging project impact" covered a range of topics from social survey design to data collection and analysis methods. Furthermore, as part of the "social survey for JICA projects", a workshop was held on the purpose, methods, and implementation

challenges of impact evaluations in particular, which are being employed more frequently in recent years. JICA thereby strived to raise awareness about the importance of social surveys in project evaluations as a tool for improving projects.



Project evaluation multimedia material (<http://jica-net.jica.go.jp/dspace/handle/10410/668>)

Mechanism for promoting the use of evaluation findings

To improve information disclosure and strengthen its accountability to the people, while also bearing in mind the needs that were confirmed from a questionnaire administered to stakeholders in 2009 to promote feedback, JICA set up the "Project Evaluation Search Database" on its website at the end of September 2010. The database includes the evaluation findings for Technical Cooperation, ODA Loans, and Grant Aid. The evaluations are searchable by project title, region/country, sector, scheme, evaluation type, and start year.

The creation of the database has made evaluation information more accessible to people interested in JICA's projects and evaluations. In addition, it has enabled the smooth feedback of evaluation information to those engaged in project design and planning, project implementation and management, and project evaluation and monitoring.

検索条件

対象地域・国名

検索

件数

評価種別

目的別

実施年度 (西暦4桁)

検索

※事業評価報告書には、プログラム・レベルの評価（個別プログラムの評価・テーマ別評価）が含まれておりません。プログラム・レベルの評価については、こちらをご覧ください。

Evaluation findings now searchable on the JICA website. (<http://www2.jica.go.jp/ja/evaluation/index.php>) Japanese only.

Examples of Uses of Evaluation Findings

(1) Cambodia “Technical Service Center for Irrigation System Project” (Technical Cooperation)

Lesson learned: Partnership with government agency

This project aims to contribute to the achievement of efficient water resources management and stable agricultural production through improving the management techniques of irrigation projects in the project area.

In a similar project carried out in Pakistan, the “Irrigation Management Transfer/Water Management Expert Project in Punjab Province”, while the importance of the partnership between the agriculture and irrigation authorities was acknowledged, a variety of problems came to light, including lack of partnership due to the government’s vertical administrative structure and lack of transparency in the partnership arrangements.

In Cambodia, too, it is essential that the Ministry of Water Resources and Meteorology in charge of irrigation development and management and the Ministry of Agriculture, Forestry and Fisheries in charge of agriculture management work together, and thus, JICA has consistently urged both ministries to do so from the time of the implementation of a preceding project. However, as with the project in Pakistan, the partnership between the ministries did not fully function. Bearing this in mind, this project confirmed that there are few obstacles to partnership at the field level and promotes partnership at the field level. The provincial agricultural authority in the project site was identified as one of the counterparts, and this project serves as a model irrigation project to generate impacts, including improved agricultural management.

(2) Viet Nam “Energy Efficiency and Renewable Energy Promoting Project” (ODA Loan)

Lesson learned: Establishment of interest rate, ensure relevance with environment policy

This project, through a two-step loan via the Vietnam Development Bank, aims to provide the necessary mid- to long-term funds for the promotion of energy efficiency and renewable energy use by companies in the country, and to raise the awareness of these companies.

In the “Environmental Protection Promotion Program” in Thailand and the “Small and Micro Industries Leader and Entrepreneur Promotion Project” in Sri Lanka, the market interest rate declined, and thus, the projects’ merit of having a low interest rate decreased. From both projects, the lesson learned was that in accordance with the changes in the economic situation, the projects should have allowed for the flexible application of the lending rate for the two-step loan. Drawing on this lesson, this project establishes a sub-loan interest rate that is linked to the national interest rate which fluctuates with market changes, so that it is a preferential interest rate that is suitable for the Vietnamese market.

In addition, in the “Mexico City Sulfur Dioxide Emission Reduction Project” in Mexico, it was recommended that when providing a two-step loan type assistance in the environmental conservation field, it is necessary to analyze the project’s relationship with related projects and subsidies provided by other government agencies and coordinate with them. Bearing this in mind, this project established an advisory committee consisting of relevant organizations and government agencies to discuss the project’s relevance with the policy trends in energy efficiency and renewable energy.

(3) Montenegro “The Project for Urgent Rehabilitation of Water Supply System in the Capital City of Podgorica” (Grant Aid)

Lesson learned: Monitoring system

This project aims to rehabilitate the water distribution system in Podgorica, and through monitoring the system’s operations and water distribution situation, provide a stable water supply service to the people of the city.

Regarding monitoring systems of water supplies, a lesson from the “Project for the Improvement of Water Supply System in Belgrade City” in then Serbia and Montenegro was that the after-sales service contract with a local company contributed to the appropriate utilization of the monitoring system. For the said project, JICA proposed to the executing agency during the assessment phase to do the same, and the same measure is scheduled to be implemented.

Approach 2 Improving accountability

1. Expanding the rating system

To make the evaluation findings easy to understand for the people, the rating method was applied to illustrate the evaluation findings for the three aid schemes of ODA Loans, Technical Cooperation (experimented in FY2008), and Grant Aid (since FY2009 ex-post evaluations).

2. Improving the disclosure of evaluation findings

In addition to the Project Evaluation Search Database on the JICA website (see p.9), JICA will continue to make efforts to employ simpler, easy to understand language in its evaluation reports, including this report. Similarly, JICA will appropriately disclose expert analyses useful from an evaluation standpoint.

3. Promoting results-based management

To ensure that the project goal and outcome indicators (the basis for project management) are appropriately established, JICA’s evaluation department conducts cross-cutting quality management for its ex-ante evaluations across the various aid schemes and sectors. It also provides

support to improve logicity until the project achieves its goal and increase evaluation feasibility. In the ex-ante evaluations of Grant Aid which began in FY2009 (projects transferred to JICA, FY2009: 85 projects), the evaluation department decided to develop quantitative effect indicators for all projects, and has been working with the department in charge of the project to quantify the outcomes.

In order to ensure project transparency and accountability, JICA intends to swiftly disclose the evaluation findings on its website after the agreement of the project with the partner country.

4. Drawing on external experts

In July 2010, JICA launched a new committee to further develop the Advisory Committee on Evaluation (see p.8). The committee, consisting of external experts, will offer recommendations on improving the project evaluations and evaluation system, as well as useful advice for strengthening JICA’s accountability to the people.

Impact Evaluation Efforts

What is Impact Evaluation?

Impact Evaluation method rigorously measures the changes in beneficiary communities that were generated by a policy or project. It ideally does this by comparing outcomes after a project has been implemented and what would have been the outcomes in the absence of the project. However, unlike in a laboratory, such comparisons are not easy to do for development projects, whose beneficiaries are actual communities in which people live. As an alternative simpler method, the comparison of outcomes between before and after project implementation or between in the beneficiary and in non-beneficiary areas are often conducted. However, in many cases, these approaches are not appropriate comparisons and can cause the overestimation or underestimation

of the change in indicators (the scale of project outcomes).

Through devising methods for determining project beneficiaries, data collection, and analysis techniques, Impact Evaluations can conduct more rigorous comparisons and accurately assess the changes generated by the project.

With greater priority being placed on results, including improvements in aid effectiveness and “Value for Money (VFM)”, international organizations, beginning with the World Bank, as well as bilateral aid agencies have also promoted the implementation of Impact Evaluations. JICA, too, has been introducing the Impact Evaluation method for the future operation.

Applications of Impact Evaluation

Application to the projects

The implementation of Impact Evaluations is considered at various stages of the project. After a pilot project is implemented, Impact Evaluations can verify the presence of impacts and the cost-effectiveness of the project, which contribute to decision-making about whether or not to expand the project area. For example, in Bangladesh, JICA has created a development model to improve governance at the local government level. The Bangladeshi side has expanded the project area, and therefore, JICA is exploring ways to conduct detailed assessments of the project's impact.

During project implementation, the effects of multiple intervention approaches can be compared for the purpose to determine a more efficient methodology. One example is a participatory approach-based school management project in Senegal. Regarding the ways of establishing a school management committee, the effectiveness of multiple approaches was questioned. Thus, at the start of phase 2 of the project, the Impact Evaluation method was applied to search for the most effective approach.

Dissemination of the impact information

Highly credible evidence is essential for disseminating any information about project impact or for expanding the area of the project. Impact Evaluations are intended to rigorously assess the project impact, and are capable of providing evidence that meets internationally accepted standards regarding the impact of JICA's projects.

JICA, bearing in mind the international challenge of conducting Impact Evaluations for infrastructure projects, is undertaking Impact Evaluations of irrigation projects in four Asian countries (see p.56-57). In addition, the JICA Research Institute and Evaluation Department have presented the impact of its projects (e.g., construction of irrigation facilities, dissemination of new agricultural techniques, dissemination of maternal and child health handbooks, improvements in school-based management) at academic meetings and conferences domestically and internationally, and have contributed to making this information international public goods.

Challenges on Impact Evaluation

Accurate assessments of project impact require wide-ranging and detailed data, including data on project beneficiaries and non-project beneficiaries. Careful planning of project design is also needed. Depending on the nature of the project, there are many projects which have difficulties to meet these requirements. For example, in large-scale infrastructure projects such as the construction of airports or ports, or financial aid projects involving policy dialogues to carry out institutional reforms in a country, it is

difficult to determine the extent to which the project had impact. Since it is hard to obtain data for areas not affected by the project, Impact Evaluations are not always feasible.

In light of these limitations, it is important to select projects for Impact Evaluations, considering such factors as clear ways of using the evaluation results, unique development models, timing of information dissemination, and interests of the international community.

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Mr. Masaichi Nosaka, editorial writer for Yomiuri Shimbun, toured ODA projects in Kenya, the regional base for JICA's East Africa projects

“Visible aid” which draws on Japan’s characteristics: Towards better targeted assistance

To spread the message of JICA's evaluation efforts, the effect of ODA projects, and the importance of international cooperation, JICA has, since FY2004, invited journalists and celebrities on ODA project tours and shared their experiences with the Japanese public.

Below is the report of journalist Mr. Masaichi Nosaka, who toured ODA projects in Kenya from February 7 to 12, 2010.

I observed the status of ODA projects in Kenya, JICA's base in East Africa. In 2008, the Kenyan Government unveiled Vision 2030 and declared it will aim to join the ranks of middle-income countries by 2030. However, this goal does not seem easy to achieve. Japan has long supported human resources development, technical transfers, and infrastructure development in Kenya. My visit focused on the theme of what does Kenya expect from Japan and how should Japan aid Kenya.

Human resources is the foundation for state-building

The development of human resources is critical as they form the foundation for state-building. I was able to confirm that Japan's persistent assistance has produced positive outcomes in the education sector.

The first is the development of Jomo Kenyatta University of Agriculture and Technology. With the objective of fostering skilled technicians in agriculture and technology, Japan provided aid for 22 years from 1978 to 2000. In addition to agriculture and technology, the university now has six programs, including computing and construction. As many as 15,000 students attend, including graduate students, and the campus was full of energy. Although Japan's assistance has lessened and the university is in the hands of the Kenyan side, the university still has close ties with Japan.

I will not forget the words of Registrar Isaac Inoti, who has studied at Kyoto University. He told me, “We continue to grow. I am grateful to JICA. I look forward to working with Japan in the industry field”.

The second is the Strengthening of Mathematics and Science Education (SMASE) Project, through which Japan supported the training of primary and secondary school teachers and efforts to improve education. It was a project unique to Japan that was consistent with Kenya's needs. In the neighboring countries as well, a scaled up project, SMASE-WECSA*1, is currently underway. Human resources development projects are very significant.

A large rice producer like Japan

Mwea, about a 2.5-hour drive from Nairobi, resembled the farming communities in Japan's Tohoku region. The Kenyan National Irrigation Board (NIB) is located in the middle of a large rice paddy, and Japan provided technical cooperation to the MIAD*2 Center under NIB in the form of NERICA rice cultivation (pilot) as well as farmer training through a small-scale irrigation project. About 7,860 ha of land is now cultivated



Mr. Masaichi Nosaka

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Visited projects	
ODA Loans	Mwea Irrigation Development Project Sondur-Miriu Hydropower Project
Technical Cooperation	Strengthening Mathematics and Science Education (SMASE) Project Jomo Kenyatta University of Agriculture and Technology (JKUAT)/(Training) Strengthening Management for Health in Nyanza Province Project Japan Overseas Cooperation Volunteer (HIV/AIDS Control) Mwea Irrigation and Agriculture Development Plan
Grant Aid	The Project for Improvement of District Hospital in the Western Region The Programme for Community-based Flood Disaster Management to Adapt to Climate Change in the Nyando River Basin



Experienced rice cultivation specialist of the MIAD Center showing off his crop and Mwea produces over 50% of the country's rice, making it Kenya's no.1 rice producer.

With agriculture making up about 24% of GDP, over 50% of the labor force, and around 50% of all export revenue in Kenya, agriculture

*1 WECSA: Western, Eastern, Central and Southern Africa
*2 MIAD: Mwea Irrigation Agriculture Development
*3 TICAD IV: The Fourth Tokyo International Conference on African Development

holds the key to economic development. At TICAD IV*³, Japan pledged to increase Africa's agricultural productivity, including doubling rice production. To this end, the Coalition for African Rice Development (CARD) was set up around JICA, in which Kenya plays a central role. This is expected to further increase rice cultivation in Mwea, where the irrigation facilities are aging and securing irrigation water is a challenge. In this context, hopes run high that Japan will support the rehabilitation of existing irrigation networks and development of new networks.

Enhancement of health services

Kenya's infant mortality rate exceeds the average for developing countries. In particular, Nyanza Province in Western Kenya has the worst rate in the country. The malaria, HIV/AIDS, and tuberculosis infection rate is also high. Unless the problems facing this region are resolved, the health indicators for the country as a whole will not improve. Problems include lack of and deterioration of medical supplies and decline in the quality and volume of health services. I visited a local hospital financed by Japan's Grant Aid. An emergency care unit including an obstetric department and other facilities were constructed next to the old hospital. Japan also provides medical supplies including equipment for emergency operations. I expect this project will contribute to improving the local health system.

The Strengthening Management for Health in Nyanza Province Project is also partnered with this hospital. When I visited, three long-term JICA experts, including Dr. Tomohiko Sugishita, were working to improve the health administration in the province. The work was low-profile, but I understood that it was important for solving Kenya's weaknesses and rehabilitating its health administration. In addition, I observed the fieldwork of JOCV Ms. Ai Shimomoto, who was engaged in an HIV/AIDS prevention program in the same province. It was encouraging to hear her say, "I applied to become a JOCV because I believe social support for HIV/AIDS patients is important".

How to meet the electricity demand

Along with its economic growth, Kenya's electricity demand has grown at a pace of about 5% on average over the past five years. However, electricity supply has not caught up and economic activities are disrupted.

To ensure a stable supply of electricity in the western region, the Sondu-Miriu Hydropower Plant was built with ODA Loans. The plant utilizes the water currents from the Sondu River that flows into Lake Victoria. It is unique in not requiring a dam. According to Robert Colleer



View from top level of Sondu-Miriu Hydropower Plant water pipe

from the Kenya Electricity Generating Company, the plant is capable of producing 60MW of electricity, which is equivalent to 5% of domestic demand.

The water used by the Sondu-Miriu plant is designed to be reused by the Sang'oro Hydropower Plant downstream and then returned to the Sondu River. When I visited, the Sang'oro plant was being built with Japanese assistance, and the target completion date was November 2011.

Saving children through flooding measures

The Nyando River Basin is prone to flooding and nearly every year there are casualties. Through Grant Aid, Japan implements flooding damage mitigation measures as well as soft assistance, including disaster prevention education for the community. Due to the deforestation of the forests upstream and their conversion into farmland, and by extension, their decreased water-retaining capacity, the amount of water flowing into downstream areas during the rainy season has increased and is causing frequent flooding damages. The sad reality is distortions created by deforestation are threatening human lives.

A building on the edge of a marshland was an emergency shelter constructed with Japanese assistance. Japanese aid consisted of constructing facilities as well as providing advice on evacuation plans. Training had also started when I visited. A siren rings if there is flooding, and teachers and community leaders were being trained to lead the residents to the shelter. I could see this was important assistance for protecting the lives of children who bear Kenya's future.

Continuing "visible" Japanese-style assistance

Africa has a weak economic base and is prone to suffer from the adverse effects of globalization. Thus, it is significant that Japan pledged to double ODA to Africa by 2012.

When I was in Kenya, I reconfirmed the role that Japan's ODA is playing, and I felt it was important to continue providing assistance aimed at Kenya's self-empowerment.

In concrete terms, first, I believe Japan should steadily fulfill its commitments and the pace of assistance should not go down. In Kenya, I saw that assistance consistent with the country's needs produced positive outcomes. Although it will not be easy to double ODA in light of Japan's financial difficulties, it is important to continue to implement better targeted assistance.

In Kenya, too, as with its assistance to the rest of Africa, China has been increasing its presence, including through road construction in the capital city and engaging in Japan's ODA projects. While China is expected to continue to actively extend assistance in order to acquire resources and new markets, it is problematic that its aid amounts and methods lack transparency. All of Japan's projects were "visible aid" which drew on Japan's characteristics. Moving forward, Japan will be urged to strengthen its own unique style of assistance, while bearing in mind China's moves.

The Japanese aid model in Kenya is commended for organically integrating tools such as Technical Cooperation and ODA Loans, in line with the CARD initiative Japan spearheaded. It is imperative that Japan leads the efforts to scale up the model to extend beyond the agricultural sector.

At the same time, a roadmap should be drawn up for graduating from "aid" in the future. If Kenya endlessly relies on aid, it may not be able to achieve self-empowerment for a long time. I hope Japan continues to provide beneficial assistance, keeping in mind that Kenya should eventually graduate from its aid recipient status.

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Ex-post Evaluation of Private Sector Investment Finance Projects

For resuming the projects

JICA's private sector investment finance projects are those which will have high development impact in developing countries, but cannot be implemented by private companies alone and therefore JICA provides debt or equity financing. In 2001, the approval of new projects was stopped as part of the reform of special public institutions. However, in recent years, it has increasingly become recognized that economic growth generated by private sector-led activities is essential for poverty reduction. Therefore, in the New Growth Strategy approved by the Cabinet in June 2010, the following was decided: "In order to support the projects with high development impacts which cannot be financed by existing financial institutions, private sector investment finance by JICA will be resumed, after its full study and evaluation of the successful and failed cases in the past and its establishment of risk examination and management system".

In this context, JICA asked a third party to conduct ex-post evaluations of the projects.

Overview of ex-post evaluations

The Japan Economic Research Institute carried out desk evaluations through analysis of existing materials and interviews of companies, etc. between April and September 2010.

The evaluation had two dimensions: 1) Evaluation of the finance on all private sector investment finance projects (31 investment projects, 656 loan projects; total 687 projects); and 2) Evaluation of individual projects (all 16 projects with an outstanding balance, 15 projects with no outstanding balance but for which past data is available; total 31 projects). The latter were evaluated against seven criteria: five OECD-DAC criteria along with "JICA's investment returns" and "additionality" (additional effects due to JICA's assistance).

Evaluation findings

The financial balance for all projects (JICA's investment returns) was a surplus of 143.8 billion yen (investment: 76.7 billion yen, loans: 67.0 billion yen). Among the 656 loan projects, 3 projects resulted in default (1.9 billion yen) and the write off ratio was 0.72%.

As for individual evaluations, over 70% (23 projects) of the projects were confirmed to have achieved either more than the planned or certain level of outcomes.

Examples of project outcomes achieved:

- Local company has grown to be South America's largest iron and steel company with approximately 30% crude steel production capacity in entire nation. (Brazil iron-making joint venture project)
- Acquisition of foreign currency using unused resources (natural gas) contributed to agriculture promotion (Bangladesh fertilizer manufacturing project).

Main Evaluation Findings

Relevance

- All projects were generally highly relevant. However, relevance was a problem for some projects due to changes in development plans of the host country of the target investment and loan project.

Efficiency

- The project period and project cost exceeded the initial plan in many projects, due to the project environment, infrastructure, and other factors in developing countries.

Effectiveness

- Many projects achieved the planned impact in terms of the operation and effect indicators. However, some projects had limited effects due to risks associated with project implementation in developing countries.

Impact

- Positive impacts were observed, including the dimensions of employment creation, acquisition of foreign currency, spillover effects on related industries, and technical transfers.
- Forward steps were taken in several projects of the iron and steel, petro-chemistry, industrial complex, and the paper and pulp sectors, including acquisition of international environmental standard ISO 14000 and information dissemination about CO₂ emissions.
- Environmental considerations were generally made appropriately. Although some projects faced problems related to relocations and land acquisition, their smooth resolutions were reported.

Sustainability

- There were projects that were both sustainable (about 40%) and not very sustainable (already bankrupt, etc.) (less than 40%).
- Factors behind the low sustainability included financial issues, due to spiraling project cost, decline in demand of domestic economy, exchange rate fluctuations, and the Asian currency and financial crisis.

Additionality (need for JICA investment and loans)

- In nearly all projects, JICA had a pump-priming effect on private investment through provision of medium- and long-term finance, promotion of policies in host country of those JICA financing (reduce policy change risk), etc.

However, the development impact of over 20% of the remaining projects (8 projects) was judged to be insufficient. Causes included inevitable reasons such as project suspension due to political turmoil and conflict, or effects of international product market situation and macroeconomic trends, such as the Asian currency crisis.

Other major evaluation findings are shown in the above table.

Lessons learned and future steps

The evaluation findings summarize that "JICA's private sector investment finance function is highly significant as an ODA tool and system enhancements are sought on the basis of appropriate management".

Meanwhile, lessons learned for the future were extracted through the evaluation and analysis of projects which could not be implemented as initially planned. For example, "thorough management during project appraisal" (e.g., improve risk analysis and its control measures, formulate exit strategy, select qualified project manager with sufficient track record), and "strengthen supervising after project is approved" (e.g., monitor criteria and indicators established during project appraisal).

JICA will continue to draw on these lessons learned in system and project design of this function.

Support to Increase Evaluation Capacity of Developing Countries, etc.

Improving the evaluation capacities of project executing agencies in developing countries further increases their ownership, and contributes to the effective and efficient implementation of JICA projects. Furthermore, it may have spillover effects on non-JICA development projects. Therefore, JICA actively provides support aimed at developing the evaluation capacities of developing countries and emerging donors.

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1 Cooperation with emerging donors

As developing countries' economies grow, aid recipients are emerging as new donors. They include the Republic of Korea, which has graduated from foreign aid, as well as Thailand and China, which are now making this transition. In order for those emerging donors to be able to implement more effective aid, JICA shares its experiences by implementing various evaluation partnerships and assistance.

During the session entitled "Practices and Evaluation of Rural Development Projects of Korea International Cooperation Agency (KOICA) and JICA" at the conference for the Japan Society for International Development (11th spring conference) that was convened at Hokkaido University in June 2010, KOICA and JICA presented their respective rural development projects and their evaluation. Views were

exchanged on the outcomes as well as each others' evaluation systems and initiatives. In December, the first regular meeting between the two agencies was held, and talks were initiated on how they can work together in the area of evaluation.

Aside from such academic activities, JICA has supported the development of evaluation officers of emerging donors i.e. through trainings for the staff of Export-Import Bank of China and China's local governments (June 2010) and for Neighboring Countries Economic Development Cooperation Agency (NEDA) of Thailand (August 2010). JICA also invited a staff of the Economic Development Cooperation Fund (EDCF) of the Export-Import Bank of Korea to the seminar on ODA Loan project evaluation (November 2010).

2 Promoting joint evaluations with developing countries

Conducting ex-post evaluations jointly with developing countries is one way by which JICA supports the capacity building of developing country governments. Joint evaluations facilitate the transfer of evaluation techniques and sharing of evaluation results. To date, JICA has carried out joint ex-post evaluations in many countries, and has achieved some success in realizing effective and efficient projects through improved evaluation techniques.

In recent years, JICA has concluded Minutes of Understanding (MOU) on evaluation with the relevant agencies of Viet Nam, the Philippines, and other countries. Comprehensive assistance is provided to transfer monitoring and evaluation methods through joint ex-post evaluations, and establish mechanisms to generate further impact and increase project sustainability.

● Viet Nam

JICA provides evaluation support based on MOU concluded with the Ministry of Planning and Investment (MPI) of Viet Nam in July 2007. The MOU consists of two pillars: 1) Implementation of joint ex-post evaluation; and 2) Evaluation system and capacity-building related assistance. The specific details are set forth in the work plans formulated by JICA and MPI each fiscal year.

In the third fiscal year of FY2009, JICA provided assistance to develop evaluation officers and implement budgetary measures, to cope with implementation issues that came to light from past assistance. As in FY2008, an ODA evaluation seminar for Vietnamese government officials was held in the three cities of Da-nang, Ho Chi Minh, and Hanoi. This seminar on evaluation management was attended by many Vietnamese officials who are in charge of project evaluation and monitoring. In addition, to support the launch of a Vietnamese evaluation association, JICA coordinated for them to participate in an



MPI staff training (Viet Nam)

international evaluation conference in Malaysia as well as to provide training for the development of Project Cycle Management (PCM) instructors. As for the joint ex-post evaluation, the Vietnamese evaluation team was involved in the series of activities up to the preparation of the evaluation report, and fulfilled an even larger role than in FY2008.

In FY2010, JICA will continue to support the capacity development of evaluation officers. To further increase the ownership of the Vietnamese side, the Vietnamese evaluation team will conduct the ex-post evaluation and a Japanese evaluator will conduct a secondary evaluation.

● Philippines

JICA provides comprehensive support to develop evaluation capacity based on an MOU concluded with the National Economic Development

Authority (NEDA) of the Philippines in May 2006. In Phase 1 (2006-2008), assistance was provided to increase the evaluation capacity of NEDA's project monitoring staff (PMS). Based on the outcomes, in Phase 2 (2009-2011), assistance is provided to enable PMS to independently conduct ex-post evaluations and to enable NEDA to carry out internal

training to develop the evaluation capacity. NEDA and JICA will work together to consider measures for addressing the issues of project impact which have come to light through the evaluations and in particular improve project sustainability (For more information about the FY2009 joint ex-post evaluation, see also p.41).

3 Seminar on Evaluation of Japanese ODA Loan Projects

The Seminar on Evaluation of Japanese ODA Loan Projects targeted at developing countries' executing agency staff in charge of development projects, had been held since FY2001 with the cooperation of former JBIC and former JICA. After the merger of the two organizations, JICA has continued to hold the seminar.

In FY2010, the seminar was held from November 8 to 19, 2010 in Japan, and was attended by 15 people from 15 countries. The program covered a wide range of topics, including an overview of JICA's evaluation system (a presentation given by JICA's Evaluation Department staff), sharing experiences among participants (a hands-on workshop), field visits (the Isewangan Expressway and the Central Japan International Airport), and a presentation on the challenges of emerging donors given by the staff of the Economic Development Cooperation Fund (EDCF) of the Export-Import Bank of Korea who were participating the seminar as observers.

Coming from executing agencies or aid agencies with plans to carry out ex-post evaluations of ODA loans in the near future, the seminar participants raised specific and focused questions and opinions which allowed information and knowledge sharing among the participants.

The participants actively took part in the Q&A sessions, and proactively sought to clarify any items they were unclear about.

The seminar aims at enhancing the participants' understanding on the importance of evaluations as well as the evaluation method of the ODA Loan projects, and developing the participants' evaluation capacity. Further, the participants are expected to actually utilize the knowledge and experiences they obtained at the seminar in their country and share them within their organization. Therefore, upon returning to their countries, the seminar participants either implement or plan steps to develop the necessary evaluation capacity at their organization based on an activity plan they have created. The outcomes of these steps are then reported to JICA in the form of a final report. In some countries, the ex seminar participants play a central role in preparing to hold seminars for government-related agencies. In these seminars, the ex seminar participants give presentations on what they have learned through the Seminar on Evaluation of Japanese ODA Loan Projects. JICA will continue to be an active supporter of these efforts to encourage feedbacks by the ex seminar participants.

OECD-DAC Peer Review of Japan

Report commends JICA's improved feedback mechanism and joint evaluations with partner countries

The OECD-DAC, which reviews aid trends in the DAC member countries, conducted a Peer Review of Japan for the first time in seven years since 2003. The findings were compiled through a visit to Japan (October 2009), field visits to Bangladesh and Kenya (October and November 2009), and the Peer Review in Paris (May 2010), and the report was released in June 2010.

The report gave a generally positive evaluation of Japan's ODA, beginning with JICA, including the establishment of the new JICA, the strengthening of the country-based approach, capacity development, South-South cooperation, and aid coordination efforts in the field. Meanwhile, it made several recommendations, including setting a timeline for increasing ODA volumes, strengthening the PR strategy and policy coherence, further streamlining procedures, reviewing the division of labor between the Ministry of Foreign Affairs and JICA, delegating more authority to the field, and making progress in reporting the untied status of aid.

Accountability, evaluation and results-based approach

The section which discusses accountability, evaluation and results-

based management of Japan's ODA projects commends Japan for advancing efforts to strengthen the feedback of evaluation findings since 2003. In particular, with reference to JICA, the report notes that the improvement measures relating to poor performing projects are reported to its board, and that JICA has established a system to make use of the lessons learned from evaluating findings when designing projects.

In addition, the report points out that a distinctive feature of Japan's ODA project evaluations is "the high degree to which they are conducted jointly with partner governments", and underlines that such evaluations offer the advantage for lessons to be learned by both donors and aid recipients. On the other hand, the report also indicates that "Japan should examine ways to design, monitor and evaluate Japan's contribution to wider outcomes and impacts, not only those where the results are directly attributable".

Furthermore, the report, while acknowledging Japan's efforts to establish a results-based management framework and apply it in its projects, recommends that the outcome-based approach should be expanded to all schemes and programs.

Part 2

FY 2009 Evaluation Results

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Evaluation Results

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Chapter 2. Evaluation Results

Part 2 summarizes the findings of the evaluations conducted in FY2009 based on the evaluation systems described in Part 1.

★Ex-post evaluation reports of all projects evaluated in FY2009 are available on the JICA website:
<http://www.jica.go.jp/english/operations/evaluation/index.html>

Overview of Ex-post Evaluation Results

JICA commissions ex-post evaluations to external experts in order to ensure the transparency and objectivity of project evaluations. The following presents an overview of the evaluation findings and analysis results from ex-post evaluation conducted in FY2009.

Ex-post Evaluation System and Analysis of Findings

The system of ex-post evaluations by external experts

JICA has strived to develop a common evaluation method for all three schemes of Technical Cooperation, ODA Loan, and Grant Aid. In FY2009, detailed evaluations were conducted for 85 projects based on a uniform evaluation system. Detailed evaluations are conducted in principle for all projects over 1 billion yen by an external expert to ensure the transparency and objectivity of evaluation findings based on field surveys. Those projects that were over 200 million yen and under 1 billion yen (90 projects) were assessed through simplified evaluations, or desk evaluation studies without field survey.

Rating system

In detailed evaluations, a project is given a rating to indicate the findings in an easy to understand way. Each project is evaluated on (1) relevance, (2) effectiveness (impact), (3) efficiency, and (4) sustainability. Based on the findings, an overall rating is given according to the flowchart on p.19 on a four-point scale: "A (highly satisfactory)"; "B (satisfactory)"; "C

(fairly satisfactory)"; and "D (unsatisfactory)". Improvements have been made to the rating system, including the creation of further sub-divisions of the items evaluated. Since FY2009, the rating system has been applied to Grant Aid projects which were transferred to JICA. However, because the ratings do not reflect all aspects of a project, they should not be overemphasized and should be considered only as one of the evaluation findings.

Analysis of ex-post evaluation findings

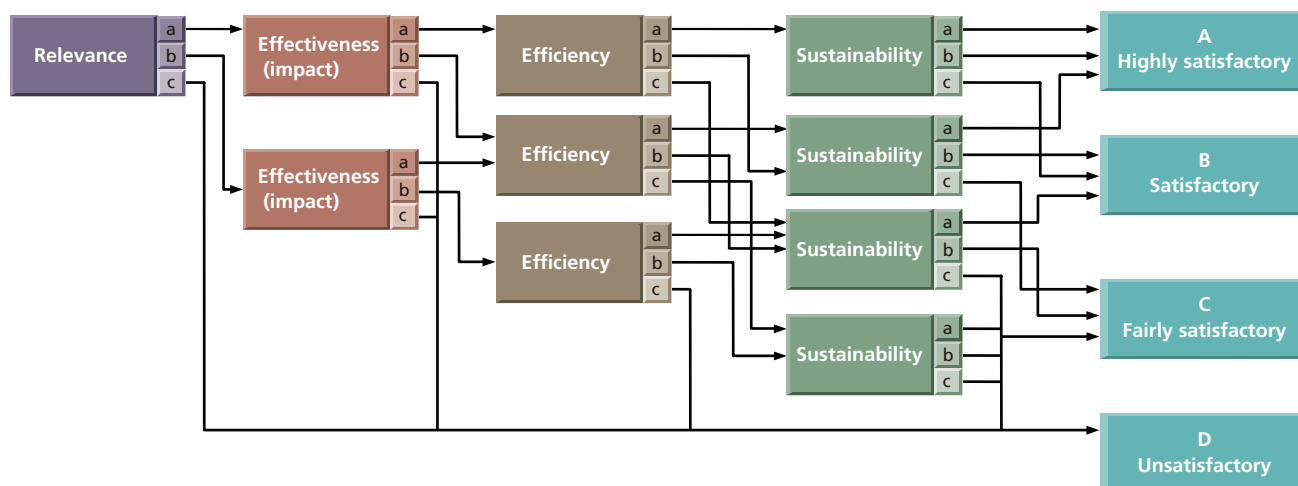
In Chapter 1, the ex-post evaluation findings are analyzed cross-sectorally, and the chapter takes stock of the lessons from individual evaluations for JICA's operations from the two perspectives of (1) coordination between aid schemes and donors aimed at increasing aid effectiveness and (2) the appropriate setting of goals and indicators. In addition, with regards to the rating distribution, the trends are analyzed by evaluation criterion. Projects cited as having problems and the findings of simplified ex-post evaluations are also summarized.

Rating method

Rating criteria and main items examined		Reasoning		
		a	b	c
Relevance	Relevance of project (relevance with development policy of recipient country, relevance with Japan's ODA policy and JICA's aid policy)	Fully relevant	Partially relevant	Serious problems in consistency
	Development needs (relevance with needs of target group / beneficiary, project area, and community)			
Effectiveness (impact)	Achievement of expected project outcome in target year	Objectives largely achieved, and project generated outcome (80% or more of plan)	Some objectives achieved, but some outcome were not generated (between 50% and 80% of plan)	Achievement of objectives was limited, and project did not generate outcome (50% or less than the plan)
	Adverse impacts on economy, society, and natural environment	No adverse impact / mitigation measures are fully effective	Some adverse impacts	Serious adverse impacts
	Use of facilities and equipment	Fully utilized	Partially utilized	Many facilities and equipment not utilized
Efficiency	Comparison of planned and actual project period and project cost (in consideration of achievement level of outputs)	Technical Cooperation: Planned and actual project inputs are efficient (100% or less than the plan)	Technical Cooperation: Planned and actual project inputs are partially inefficient (between 100% and 150% of plan)	Technical Cooperation: Planned and actual project inputs are inefficient (exceeding 150% of plan)
		ODA Loan / Grant Aid: Efficient (100% or less than the plan)	ODA Loan / Grant Aid: Partially inefficient (between 100% and 150% of plan)	ODA Loan / Grant Aid: Inefficient (exceeding 150% of plan)
Sustainability	Institutional sustainability (e.g., structure / skills / HR of organization, policy and system)	Sustainability is ensured, and if not there is a certain likelihood that sustainability will be ensured	Sustainability is partially ensured, but the future outlook is unclear	Clearly insufficient
	Financial sustainability (availability of and prospects for public and private funding)			

The criteria and items examined differ by aid schemes and projects.

Rating Flowchart



Cross-sectoral Analysis

Coordination between aid schemes and donors aimed at increasing aid effectiveness

To maximize the development outcome, developing country governments must carry out projects based on their policies by taking strong ownership, capitalizing on their funds and human resources as well as those of the donors. JICA has taken comprehensive steps to increase development outcome, including organically linking its aid schemes (Technical Cooperation, ODA Loan, and Grant Aid) and coordinating with other donors. In order to further increase development outcome, the followings illustrate examples of ex-post evaluations from which ideas were obtained for enhancing the coordination mechanisms.

Based on policy dialogues with developing countries, JICA establishes development goals with a view to solving development issues and subsequently formulates specific projects. The program approach aims to enhance the synergistic effects between the projects, and thereby, increase overall project outcome.

“Northern Rural Infrastructure Development Project” in Bangladesh (details on p.36-37) is an example of a project which integrated ODA loan scheme and technical cooperation scheme. Together with an ODA Loan project in which rural roads and a Rural Development Engineering Center were constructed, a Technical Cooperation was also provided to the Center to enhance the capacity of engineers for proper operation and maintenance of the newly constructed roads, etc. Owing to this collaboration, the project greatly contributed to improving living standard and the regional economy in rural areas. This project was co-financed by multiple donors, including the Asian Development Bank (ADB) and the Swedish International Development Cooperation Agency (SIDA). This mechanism, combined with the fact that the executing agency on the Bangladeshi side, which exercised strong ownership and possessed a comparatively high level of capacity, made comprehensive efforts for the social development of rural areas, and contributed to the wide-ranging development outcome of the project.

On the other hand, timing is critical for channeling various resources into a developing country. In the case of JICA’s support to the Kenya Medical Research Institute (KEMRI) by means of Technical Cooperation projects (two projects) and Grant Aid project, while the projects individually

contributed to raising the standard of health services, they were evaluated as not having generated sufficient synergistic effects. Policy changes of the Kenyan Government necessitated the implementation of additional studies, and caused delays in the development of the facility through the Grant Aid project. As a result, the Technical Cooperation project to strengthen the management of the facility had limited impact. In the case of the program approach, these findings suggest that the comprehensive examination and adjustments of project timing and project period will further enhance the project outcome.

In addition, the ODA Loan “Integrated Reforestation Project” for Tunisia (details on p.42-43) is an example of a project which was implemented in coordination with other donors. Along with the World Bank and the Agence Française de Développement (AFD), since 2000 JICA has continuously supported the forestry sector in Tunisia based on the strategy of the Tunisian Government. The “integrated approach”, which implements technical components of afforestation in parallel with social development components, was introduced under the World Bank assistance and is now a standardized approach. JICA’s project is based on this approach, too, and it was evaluated to be appropriate. The ex-post evaluation revealed that the efforts of Tunisia and donors spanning over 20 years have restored the forest cover percentage from 8% in 1995 to 13% in 2009, as well as that the pressure on forestry resources from human activities was reduced. The Paris Declaration* underscores the importance of harmonizing donor projects with the policies of the developing country governments, and this project is a good practice along with the principle of this Paris Declaration principle.

The above examples showed that in order to generate larger outcome, projects need to be implemented in consultation and coordination with other donors, after ascertaining the policies and capacities of developing countries and carefully reviewing the aid strategy (aid schemes, project components and timing). The importance of strengthening the program approach was thus reconfirmed.

Establishment of appropriate goals and indicators

In the PDCA cycle of projects, the relevance of the project plan and the effectiveness of the project outcome are evaluated by primarily:

*The Paris Declaration on Aid Effectiveness is an agreement reached between developing countries and donors, including Japan, in 2005.

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establishing goals at the time of project planning (ex-ante evaluation); and measuring the extent to which the goals were achieved after project completion (ex-post evaluation).

In this process, it is effective to quantify and numerically express the goals through the establishment of evaluation indicators, which helps to ascertain their achievement and to make objective evaluations. Data collection and goal setting before project implementation, as well as the establishment of a monitoring system in a counterpart country, have allowed project impacts to be confirmed quantitatively. For example, the evaluation of the Grant Aid project for Cambodia, "Project for Improvement of Equipment for Demining Activities (Phase IV)" (details on p.32-33), confirmed the steady expansion of the land cleared of landmines and the reduction in annual landmine casualties. Furthermore, the evaluation of the Technical Cooperation project for Niger, "Project on Support to the Improvement of School Management through Community Participation (School for All)", confirmed the scale-up of the school management model and an increase in the number of enrollees and enrollment rate.

Meanwhile, the evaluations of a number of projects made several points regarding the establishment of project goals and evaluation indicators. For instance, some evaluations noted that the project established over ambitious goals relative to the project size and contents. Some also indicated that the project did not establish any indicators, or that data related to the established indicators were not obtained on a timely basis.

In the case of the ODA Loan project for China, "Jilin Song Liao River Basin Environmental Improvement Project" (details on p.34-35), water quality data of nearby rivers were confirmed at the time of the ex-post evaluation to measure the achievement of one of the project goals, "improve water quality in the river basin". However, clear improvements were not apparent. Because the project goal was ambitious for the size of this project, the evaluation notes that goals should be set so that they have clearer relevance to the project and the outputs can be confirmed (e.g., "prevent the worsening of the water quality of the water system covered by the project"). Furthermore, in the case of the Grant Aid project for Timor-Leste, "The Project for Improvement of Roads

between Dili and Cassa" (details on p.38-39), the implementing agency had not collected sufficient data related to the evaluation indicators and sufficient information could not be obtained to grasp the project impacts. Thus, a lesson from the project was that the provision of support to establish a monitoring system for project data should also be considered.

As goals are set higher, the project's impacts on beneficiaries also become more difficult to measure due to the influence of external factors other than the project's outcomes. Therefore, the establishment of goals which veer away from the project's components is ineffective from the standpoint of monitoring the project and assessing its impacts. Furthermore, there are some difficulties involved with the establishment of evaluation indicators and the acquisition of necessary data, as some projects target many beneficiaries who are spread out over a wide area and the indicators are beyond what the executing agency is capable of measuring. JICA, however, strives to make objective assessments of the development impacts as much as possible.

Specifically, JICA has implemented ex-ante evaluations, including the establishment of evaluation indicators, for Technical Cooperation and ODA Loan projects since FY2001. It has also enhanced the establishment of indicators in the ex-ante evaluation table for Grant Aid projects. Many of the projects from the latest ex-post evaluations date back to before the introduction of the current system, but in recent years, more projects carry out baseline surveys and support the enhancement of monitoring capabilities. Therefore, it is expected that improvements will be made to the cases discussed earlier.

Furthermore, in the sectors of health and education, new approaches have been tried. This includes the establishment of verifiable indicators using empirical evidence that has been accumulated through many years of research around the world, as well as those items found in the basic data of the broad range of beneficiaries for which data can be collected regularly.

Based on the ex-post evaluation results and drawing on the fruits of international research, JICA will continue to strive to establish appropriate goals and evaluation indicators, as well as objectively and quantitatively measure the impacts.

■ Sample effects indicators

Sector	Key indicators (unit)	Sample ex-post evaluation project
Road	<ul style="list-style-type: none"> Traffic volume (vehicles/day) Reduction in transit time (time/year) 	Industrial Ring Road Construction Project (Thailand)
Irrigation	<ul style="list-style-type: none"> Irrigated and planted area (ha) Production of major crops (t) Water charge collection rate (%) 	Lower Agusan Development Project (Irrigation Component) (Philippines)
Health	<ul style="list-style-type: none"> Bed occupancy rate (%) Number of surgical operations (cases) Number of laboratory tests (cases) 	Project for Improvement of Josina Machel Hospital (Angola)
Environment	<ul style="list-style-type: none"> Amount of wastewater treated (t/day) Amount of pollutants removed (t/year) Number of inspections by environmental authorities (cases) 	Heilongjiang Songhua River Basin Environmental Improvement Project (China)
Education	<ul style="list-style-type: none"> Number of school management committees, number of activities (cases) Number of enrollees (people), enrollment rate (%) 	Project on Support to the Improvement of School Management through Community Participation (School for All) (Niger)
Water supply	<ul style="list-style-type: none"> Water supply (m³/day) Population with water supply (people) Non revenue water (%) 	Project for Improvement of Water Supply System in Matara District (Sri Lanka)

The Results of Ex-post Evaluation Rating

Country	No	Scheme*	Project name	page	Rel- evance	Effec- tiveness	Effi- ciency	Sustan- ability	Overall rating
India	1	L	Simhadri Thermal Power Station Project (I)-(IV)	26	a	a	a	a	A
Indonesia	2	L	Urban Arterial Roads Improvement in Metropolitan Project		a	a	b	a	A
	3	L	Development Policy Loan (I)-(IV)*2	28	—	—	—	—	A
	4	G	The Project for Rehabilitation of Gresik Steam Power Plant Units 3 and 4		a	a	a	a	A
	5	L	Sipansihaporas Hydroelectric Power Plant Project (E/S)(1)(2)		a	a	b	a	A
	6	L	Construction of Railway Double Tracking of Cikampek-Cirebon		a	a	b	a	A
	7	G	The Project for Bridge Construction in the Central and North Sulawesi Provinces		a	a	a	b	A
	8	T	The Project for Strengthening of Polytechnic Education in Electric-Related Technology	30	a	b	a	b	B
	9	L	Palembang Airport Development Project (1)		a	a	b	b	B
	10	L	Way Sekampung Irrigation Project (1)~(3)		a	a	b	b	B
	Kazakhstan	11	L	Astana Airport Reconstruction Project		a	a	b	a
Cambodia	12	G	The Project for Improvement of Water Supply System in Siem Reap Town		a	a	a	a	A
	13	G	The Project for Improvement of Equipment for Demining Activities (Phase IV)	32	a	a	a	a	A
Sri Lanka	14	L	Bandaranaike International Airport Development Project		a	a	b	a	A
	15	L	Small-Scale Infrastructure Rehabilitation and Upgrading Project (I)(II)		a	a	b	b	B
	16	L	Road Network Improvement Project		a	a	b	b	B
	17	G	The Project for Improvement of Water Supply System in Matara District		a	a	a	a	A
Thailand	18	L	Mahaweli System C Upgrading Project		a	a	b	b	B
	19	L	National Metrology System Development Project (I)(II)		a	a	b	a	A
	20	L	Industrial Ring Road Construction Project		a	a	b	a	A
	21	L	Power Distribution System Reinforcement Project (5-1)(5-2)		a	a	b	a	A
	22	L	Pasak Irrigation Project (Kaeng Khoi-Ban Mo Pumping Irrigation)		b	a	b	a	B
	23	L	Distribution System Reliability Improvement Project		a	a	b	a	A
	24	L	Pak Kret Bridge and Connecting Road Construction Project		a	a	b	a	A
China	25	L	Hainan Development Project (Yangpu Port)		a	a	b	a	A
	26	L	Huai River Henan Water Pollution Control Project (I)(II)		a	b	b	a	B
	27	L	Gansu Water-Saving Irrigation Project		a	a	b	a	A
	28	L	Jilin Song Liao River Basin Environmental Improvement Project	34	a	b	b	b	C
	29	L	Guangxi Water Supply Project		a	a	b	a	A
	30	L	Jiangxi Water Supply Project		a	a	b	a	A
	31	L	Tongyu River Irrigation Development Project (I)(II)		a	b	c	a	C
	32	L	Heilongjiang Heihe-Bei'an Road Construction Project		a	a	a	a	A
	33	L	Heilongjiang Songhua River Basin Environmental Improvement Project		a	b	b	a	B
	34	L	Xiang River Basin Hunan Environmental Improvement Project (I)(II)		a	b	b	a	B
	35	L	Shuoxian-Huanghua Railway Construction Project (I)-(IV)/Huanghua Port Construction Project		a	a	a	a	A
36	L	Chongqing Urban Railway Construction Project		a	b	b	a	B	
37	L	Changsha Water Supply Project		a	a	b	a	A	
38	L	Hohhot and Baotou Environmental Improvement Project (I)(II)		a	b	a	b	B	
39	L	Hohhot Water Supply Project		a	b	b	a	B	
40	L	Benxi Environmental Improvement Project (I)-(III)		a	a	b	b	B	
41	L	Liuzhou Environmental Improvement Project		a	b	b	a	B	
Nepal	42	L	Kali Gandaki 'A' Hydroelectric Project		a	a	b	a	A
	43	G	The Project for the Extension and Reinforcement of Power Transmission and Distribution System in Kathmandu Valley (Phase III)		a	a	a	b	A
Pakistan	44	G	The Project for the Retrieval of Sewage and Drainage System in Lahore City		a	a	b	a	A
Bangladesh	45	L	Northern Rural Infrastructure Development Project	36	a	a	a	b	A

Regarding projects which have page numbers listed, please refer to page 26 and onwards of this report.
For projects with a star (★) denotes that the division in charge of the project has made some interpretations which vary from the evaluation findings. For details, please contact the Evaluation Department of JICA.

Country	No	Scheme*	Project name	page	Rel- evance	Effec- tiveness	Effi- ciency	Sustan- ability	Overall rating
Timor-Leste	46	G	The Project for Improvement of Roads between Dili and Cassa	38	a	a	a	c	B
Philippines	47	L	Lower Agusan Development Project (Irrigation Component)	40	b	c	c	c	D
	48	L	Lower Agusan Development Project (Irrigation & Flood Control Component)		a	a	b	c	C
	49	L	Selected Airports (Trunkline) Development Project (Phase I)(Phase II)		a	a	b	b	B
	50	L	Rehabilitation and Maintenance of Bridges Project (Phase IV)		a	a	b	b	B
	51	L	Arterial Road Links Development Project (Phase IV)		a	a	c	a	B
	52	L	Northern Negros Geothermal Project*		a	c	b	b	D
	53	L	Rural Road Network Development Project (II)		a	a	b	b	B
	54	L	Philippine - Japan Friendship Highway Mindanao Section Rehabilitation Project (I)(II)		a	a	b	b	B
	55	L	Pinatubo Hazard Urgent Mitigation Project (Phase II)		a	a	b	b	B
	56	L	Southern Mindanao Integrated Coastal Zone Management Project		a	a	b	b	B
Viet Nam	57	L	Mindanao Container Terminal Project		a	b	a	a	A
	58	L	National Highway No.10 Improvement Project (I)(II)		a	a	b	b	B
	59	L	Da Nang Port Improvement Project		a	a	b	a	A
	60	L	Hai Van Tunnel Construction Project (I)-(III)		a	a	b	a	A
Malaysia	61	L	Hanoi Drainage Project for Environment Improvement (I)(II)		a	a	b	a	A
	62	L	Binh Bridge Construction Project		a	a	b	a	A
63	T	Project on Networked Multimedia Education System		b	c	c	c	D	
Laos	64	G	The Project for Rehabilitation of the Nam Ngum I Hydropower Station		a	a	a	a	A
Egypt	65	G	The Project for Improvement of Water Supply System at the Northern Pyramids Area in Giza City		a	a	b	a	A
	66	L	Integrated Reforestation Project	42	a	a	b	a	A
Tunisia	67	L	Telecommunications Network Development Project (II)(III)/Interurban Telecom. Transmission Network Expansion Project		a	a	b	a	A
Morocco	68	T	Establishment of Extension System for Artisan Fisheries in Morocco	44	a	a	a	b	A
Angola	69	G	Project for Improvement of Josina Machel Hospital	46	a	a	b	b	B
Kenya	70	G	The Project for Improvement of Facilities for Control of Infectious and Parasitic Diseases at Kenya Medical Research Institute		b	b	a	b	C
	71	T	International Parasite Control Project		a	a	b	a	A
	72	T	The Research and Control of Infectious Diseases Project		a	b	b	a	B
Swaziland	73	L	Northern Main Road Construction Project	48	a	a	c	a	B
	74	T	School for All		a	a	b	b	B
Niger	75	G	Project for Construction of Primary Schools in Dosso and Tahoua Regions	50	a	b	b	b	C
Malawi	76	T	The Project on Aquaculture and Technical Development of Malawian Indigenous Species	52	a	b	b	b	C
Mali	77	G	The Project for Construction of Primary Schools (Phase II)		a	a	b	b	B
South Africa	78	G	The Project for Improvement of Medical Equipment for Primary Health Care Institutes in Eastern Cape Province		a	a	a	b	A
Mozambique	79	G	The Project for Groundwater Development for Rural Water Supply in Zambezia Province		a	a	b	b	B
Lesotho	80	G	The Project for Construction of Primary Schools		a	a	a	b	A
Peru	81	L	Social Sector Development Project in Sierra Area II (FONCODESII)	54	a	a	b	a	A
	82	L	Yuncan Hydro Power Plant Construction Project (Paucartambo II)		a	a	b	a	A
	83	L	Southern Lima Metropolitan Sewerage Improvement Project		a	b	b	b	C
Albania	84	L	Drin River Hydropower Stations Rehabilitation Project		a	a	c	a	B
Bulgaria	85	L	Port of Bourgas Expansion Project		a	b	c	c	D

*1 T: Technical Cooperation, L: ODA Loan, G: Grant Aid
*2 As this project is a general budget support loan, its evaluation method is different from the others'.

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Explanation of Ratings Distribution

Overall rating

In FY2009, detailed ex-post evaluations were conducted for 85 projects: 61 ODA Loan projects; 17 Grant Aid projects; and 7 Technical Cooperation projects. Most of the projects were carried out in Asia and Africa by region, and for the development of roads, electricity, water supply and sewerage, and irrigation by sector.

The overall ratings of the 85 projects are as illustrated in the graph: 43 projects were rated A (50.6%); 31 projects were B (36.5%); 7 projects were C (8.2%); and 4 projects were D (4.7%). A and B combined account for 87.1% of the total; therefore, the projects largely generated the impacts which were expected. Compared to previous trends, while the share of the projects with A increased and the share of the projects with C decreased this fiscal year, the distribution overall is comparable to previous years.

Criterion-based rating

The findings by criterion are as follows. First, with regards to relevance, 80 projects were rated "a" (94.1%) and 4 projects were "b" (4.7%); therefore, most of the projects were deemed relevant. The reasons for the "b" rating included the fact that while the project was relevant to the needs and policies of the developing country, the project was not necessarily relevant to the needs and development policies at the field level in some parts of the project areas.

Next, regarding effectiveness (impact), 64 projects were rated "a" (75.3%), 17 projects were "b" (20.0%), and 3 projects were "c" (3.5%). Therefore, many projects were deemed to be effective and have generated impacts. Projects which were rated "b" and "c" included those that constructed and developed outputs such as facilities and infrastructure as planned, but they were not utilized as initially expected. Reasons vary by project. For example, in several projects, the reason was attributed to the deterioration of the economic environment, which caused delays in closely related projects, and as a result, the facilities did not fully operate.

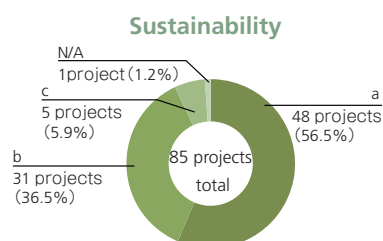
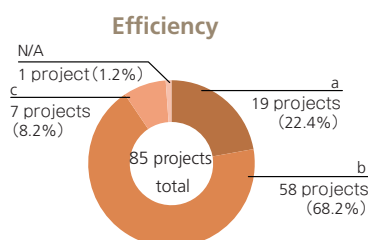
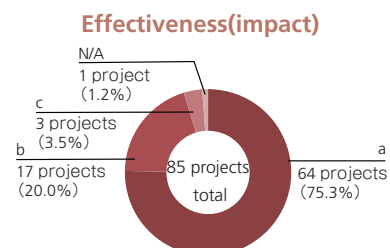
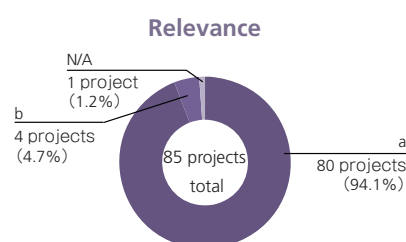
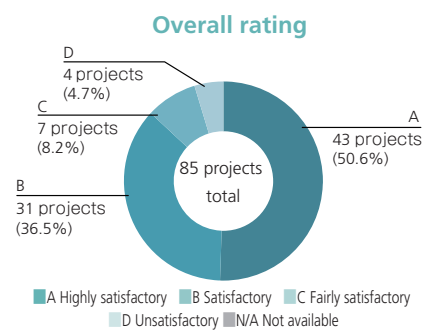
As for efficiency, 19 projects were rated "a" (22.4%), 58 projects were "b" (68.2%), and 7 projects were "c" (8.2%). Therefore, the projects were not necessarily efficient. The primary cause of the "b" and "c" ratings was the fact that the project was not completed within the planned period. Reasons included external factors such as inclement weather, delays in construction progress and procurement procedures, and delays in the licensing procedure of the counterpart country's government and executing agency.

Finally, with regards to sustainability, 48 projects were rated "a" (56.5%), 31 projects were "b" (36.5%), and 5 projects were "c" (5.9%). Therefore, there is substantial room for improvement. In many projects, the cause of the "b" and "c" ratings was attributed to insufficient budgets for operation and maintenance. The reasons for this included insufficient budget allocations from the central government, as well as the collection of insufficient user fees from the users of the facilities, etc. (e.g., school tuition, use of irrigated water) for covering the necessary operation and maintenance expenses.

Regarding these problems, individual project evaluations identify recommendations and lessons learned for JICA and the developing country. They include "fully understand the development needs,

including at the field level, during the project planning stage", "establish realistic procurement and construction schedules", and "allocate a sufficient operation and maintenance budget". The recommendations and lessons learned will be fed back to the developing country in order to improve the project and to utilize them for future projects. At the same time, mechanisms will be developed for recommendations and lessons learned to be fed back within JICA to steadily reflect them in future ODA projects.

Overall rating and four criteria ratings



*The Indonesia "Development Policy Loan (DPL) (I) - (IV)" employed an evaluation method that is different from other projects, and was thus not rated against the four criteria. See p.28 for details.

Projects Cited as Having Issues in Ex-Post Evaluation

Based on the ex-post evaluation findings, an overall rating of projects is given on a scale of A to D. Of those evaluated in FY2009, the following four projects were evaluated as D (unsatisfactory).

JICA will make follow-up by such tools as a follow-up study, ex-post

monitoring, etc. in response to the challenges, lessons learned, and recommendations identified in the ex-post evaluation, and take stock of them for future similar projects.

Philippines: Lower Agusan Development Project (Irrigation Component) (ODA Loan)

● **Evaluation result**

Of the area irrigated by the project, the actual area cultivated with rice was significantly smaller than planned. Conversion of irrigated land into residential and commercial areas was the primary reason for the significant reduction. However, other factors included facility failures due to flooding, farmers not having enough capital to develop their land, and the absence of landowners.

With regards to operation and maintenance, major concerns were raised over the project's financial sustainability. The reasons included the high power cost for pump irrigation, the limited collection of water fees due to the aforementioned reduction in irrigated and cultivated land area, and the high dependence (about 70%) on government subsidies.

● **Recommendations and lessons learned**

It was recommended that the executing agency secure the necessary budgetary funds and proceed with the repairs of the irrigation facilities as planned in order to increase the irrigated and cultivated area. The executing agency was also recommended to increase the capacity of irrigation associations (IAs) to facilitate appropriate operation and management and to increase the collection rate of water fees. In addition, a lesson from the project was that irrigation projects need to be implemented in coordination with the land use development plan and policies of local governments. In particular for pumping irrigation, in which cost is high, the operation and maintenance cost sharing method should be fully explored during the project appraisal stage.

● **Action plan by responsible department in JICA**

The JICA department responsible for the project will monitor the trends associated with the conversion of irrigated land into residential and other areas, through the executing agency. Furthermore, it will monitor the executing agency's efforts to improve the irrigation facilities in order to increase the irrigated and cultivated acreage, as well as monitor the operation and maintenance of the facilities.

Malaysia: Project on Networked Multimedia Education System (Technical Cooperation)

● **Evaluation result**

The purpose of the project was to carry out distance learning using satellite communication from the hub station at the Multimedia University for five education institutions in Malaysia (remote stations), in order to develop information and communication technology (ICT) human resources. However, the number of persons who completed the courses was significantly lower than planned. The distance learning courses were cancelled following the project's termination. The reasons included the declining number of students owing to the rise in education institutions which offer similar courses, as well as external factors including the availability of high-speed Internet at low prices contrary to expectations at the time of the project's planning. Furthermore, the evaluation noted that the needs of the remote stations were not well understood.

Philippines: Northern Negros Geothermal Project(ODA Loan)

● **Evaluation result**

Due to the reduction in steam flow after the project's completion, the maximum power output of the power plant as well as the electricity generated by the transmission line declined. At the ex-post evaluation stage, they were both roughly two-thirds to one-fifth of the levels that were planned.

The project period was also significantly longer than planned, with there having been little prospect of an energy sales contract being signed due to the Asian currency crisis and the construction work being placed up for re-tender. Furthermore, earnings from energy sales were insufficient due to the shortage of electricity generated; therefore, the financial sustainability of the project was not fully certain.

● **Recommendations and lessons learned**

It was recommended that the executing agency continues its initiatives to restore the steam flow, including the additional development of steam wells, and that JICA continues to monitor these activities. In addition, the evaluation noted that while geothermal power is a promising renewable energy, heat source development risks specific to geothermal power generation may pose serious impacts on the project's effectiveness. Thus, the lesson was that risk mitigation measures should be considered during the project's appraisal.

● **Action plan by responsible department in JICA**

A distinctive characteristic of geothermal projects is that project impact rises with long-term heat source development. Thus, development inside the buffer zone (closer to the heat source) was needed to cope with the shortage of steam supply. However, the necessary procedures were delayed. At present, the procedures have been completed, and the executing agency is carrying out heat source studies. JICA will continue to monitor these activities.

● **Recommendations and lessons learned**

In light of Malaysia's continued needs for ICT human resources development, the implementing agency was recommended to gauge the current situation and review the possibility of reutilizing the Networked Multimedia Education System (NMES). In addition, since the project had an overall focus on communication technology for the purpose of providing distance learning opportunities using satellite communication, it was recommended that the project considers both communication and education aspects. A lesson learned was that if the counterpart agency is an implementing agency not directly affiliated with the government, the division of roles should be set out clearly.

● **Action plan by responsible department in JICA**

Regarding the future activities of the implementing agency, the JICA department responsible for the project will advise the reutilization of NMES as necessary. It will also share the lessons learned from this project with stakeholders in order to draw on them during the project cycle of similar projects (project planning and implementation stages).

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Bulgaria: Port of Bourgas Expansion Project (ODA Loan)

● Evaluation result

The amount of bulk cargo, such as coal and iron ore, handled at the port terminal following its completion did not reach the planned level as of the ex-post evaluation. The business difficulties faced by the largest steel plant in Bulgaria supplying the bulk cargo forced the plant to stop production. As a result, the amount of cargo handled at the Port of Bourgas significantly declined. This was the primary reason. Furthermore, due to the slowdown in cargo transactions, the executing agency continued to incur losses. Thus, the budget for operation and maintenance was inadequate and routine maintenance was not conducted. Based on these circumstances, the sustainability of the project was determined to be low.

● Recommendations and lessons learned

In order to increase cargo transactions, the executing agency was recommended to continue to find new suppliers of cargo and to take steps to transform the port into a transshipment port. JICA was recommended to continue to monitor these activities. In addition, a lesson learned was that in order to prevent projects from being directly impacted by a company's business performance, project risks need to be carefully considered at the project design stage if there are only one or few specific cargo suppliers.

● Action plan by responsible department in JICA

The Ministry of Transport advances efforts to make effective use of the port, including finding new customers to revitalize the port and modifying the cargo that is handled. JICA will continue to support the policies of the Ministry of Transport, including making forecasts of cargo demand and other efforts.

Pilot Implementation of Simplified Ex-Post Evaluation

Simplified ex-post evaluations were conducted by external evaluators in this fiscal year as a pilot basis. The projects covered by this simplified ex-post evaluations were over 200 million yen and below 1,000 million yen, which were not covered by detailed ex-post evaluations. Considering the number of projects and the cost-effectiveness of evaluations, the simplified ex-post evaluations were carried out as desk evaluation studies, not carrying out field surveys. In order to evaluate the projects, the primary information was collected from implementing agencies through questionnaires. This information was supplemented by relevant documents and interviews of project stakeholders in Japan.

The evaluation results of individual projects are available on the JICA website (<http://www.jica.go.jp/english/operations/evaluation/index.html>).

Several issues have been addressed in the implementation of simplified ex-post evaluations: for instance, some implementing agencies did not submit the answers to the questionnaires by the deadline and the answers provided were sometimes insufficient to conclude evaluation result. Furthermore, since this evaluation was carried out as desk evaluation study, verifying the accuracy of answers from implementing agencies including current effect and maintenance situation, have been recognized as major issues. Also, this limitation made it difficult to draw recommendations for the project.

Trends in simplified ex-post evaluation findings

Based on the above limitations, while evaluations were conducted according to the five DAC evaluation criteria, some of them have reservations about their results. Each evaluation criterion was assessed and analyzed as much as possible based on all the findings of the project evaluations. Simplified ex-post evaluations were conducted for 90 projects: 51 Grant Aid projects and 39 Technical Cooperation projects. The observations for each evaluation criterion are elaborated

below.

In most of the projects, the criterion of "relevance" was evaluated to be high. Some projects, however, were not relevant with the development needs of the recipient country, due to changes in the policy of the implementing agency and the declining needs of the beneficiaries. Regarding "efficiency", with Grant Aid projects largely allowing the Japanese side to control the inputs, many projects achieved their planned outputs. Concerning effectiveness (impact) approximately 60% of the projects achieved most of their initial objectives, while some projects faced challenges in achieving their outcome and target indicators. Regarding "sustainability", concerns related to financial situation and the facilities' operation and maintenance system of the implementing agency were recognized in approximately 60% of the projects.

In addition, among Technical Cooperation projects, issues tended to be more visible in case that the implementation approach required more careful coordination among various implementing agencies, compared to projects implemented with a single agency.

Future efforts

The JICA department(s) responsible for the project will take stock of the individual evaluation findings for supervising other projects. In light of the above challenges and difficulties with the implementation method of the simplified ex-post evaluation, JICA will examine to improve the method based on its need to achieve accountability and the cost-effectiveness of the evaluation.

List of Projects Outlined in this Report

The evaluation findings for the following projects are outlined on page 26 and onwards.

Ex-post Evaluation

	Country	Scheme	Project name	page
1	India	ODA Loan	Simhadri Thermal Power Station Project (I)-(IV)	P.26
2	Indonesia	ODA Loan	Development Policy Loan (I)-(IV)	P.28
3	Indonesia	Technical Cooperation	The Project for Strengthening of Polytechnic Education in Electric-Related Technology	P.30
4	Cambodia	Grant Aid	The Project for Improvement of Equipment for Demining Activities (Phase IV)	P.32
5	China	ODA Loan	Jilin Song Liao River Basin Environmental Improvement Project	P.34
6	Bangladesh	ODA Loan	Northern Rural Infrastructure Development Project	P.36
7	Timor-Leste	Grant Aid	The Project for Improvement of Roads between Dili and Cassa	P.38
8	Philippines	ODA Loan	Lower Agusan Development Project (Irrigation Component)	P.40
9	Tunisia	ODA Loan	Integrated Reforestation Project	P.42
10	Morocco	Technical Cooperation	Establishment of Extension System for Artisan Fisheries in Morocco	P.44
11	Angola	Grant Aid	The Project for Improvement of Josina Machel Hospital	P.46
12	Swaziland	ODA Loan	Northern Main Road Construction Project	P.48
13	Niger	Grant Aid	The Project for Construction of Primary Schools in Dosso and Tahoua Regions	P.50
14	Malawi	Technical Cooperation	The Project on Aquaculture and Technical Development of Malawian Indigenous Species	P.52
15	Peru	ODA Loan	Social Sector Development Project in Sierra Area II (FONCODESII)	P.54

Impact Evaluation

16	Thailand/Philippines/ Indonesia/Sri Lanka	ODA Loan	Impact Evaluation of Irrigation Projects	P.56
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Simhadri Thermal Power Station Project (I)-(IV)

Asia
India

Contributing to industrial development by meeting electricity demand growth

External Evaluator: Keishi Miyazaki, OPMAC Corporation

Outline of the Project

- Loan amount / Disbursed amount: (I) 19,817 million yen / 19,371 million yen; (II) 12,194 million yen / 12,191 million yen; (III) 27,473 million yen / 27,294 million yen; (IV) 5,684 million yen / 1,251 million yen
- Loan agreement: (I) February 1997; (II) March 2001; (III) February 2002; (IV) March 2003
- Terms and conditions: (I) 2.3% interest rate; 30-year repayment period (including a 10-year grace period); general untied (II-IV) 1.8% interest rate; 30-year repayment period (including a 10-year grace period); general untied
- Final disbursement date: (I-IV) April 2007
- Executing agency: National Thermal Power Corporation Ltd. (NTPC)

Project Objectives

Overall Goal: To contribute to industrial development, and thereby, to promote employment creation and improvement of people's living standards through electrification of rural areas and households in Andhra Pradesh State (AP State)



Project Purpose: To meet electricity demand growth and assure stable electricity supply in AP State



Output: Construction of 1,000 MW coal-fired thermal power station

Effects of Project Implementation (Effectiveness, Impact)

In AP State of southern India, the agricultural sector has been a large electricity consumer. Because of this, as well as the development of the IT industry, the industrial sector faced a shortage of electricity supply, and the shortage had become a bottleneck to the economic development.

The power station constructed by this project has operated steadily since 2004, when construction was completed. All key operation and effect indicators have achieved their targets, including a maximum output of 1,000 MW and a plant load factor of 97.27% in FY2009/2010. As of 2009, the power station shared 8% of the total installed power generation capacity and 11.9% of the generated electrical energy in AP State, and provided around 8,000 GWh of stable electrical energy supply per year as a base-load power generation plant. This project contributed to mitigating the electricity demand and supply gap in AP State, and in the process, supported its industrial development. This project has therefore largely achieved its objectives, therefore its effectiveness is high.

Relevance

Both at the time of appraisal and at the time of the ex-post evaluation, the objectives of this project were in alignment with the Indian development plan. The need to enhance the power generation capacity of AP State to mitigate its severe shortage of electricity supply, was also high at both times. At the time of appraisal, the project was consistent with Japan's Country Assistance Program for India, and therefore, its relevance is high.

Efficiency

Both the actual project cost and period were below the planned cost and period, and therefore, efficiency is high. Factors which contributed to the early completion of the project include: (1) As a model project for NTPC, priority was given to the mobilization of personnel, budget, and other resources for this project; (2) The project implementation capacity of the contractor and NTPC were high; (3) The AP State government and the municipality government strongly supported this project; and (4) The land acquisition and resettlement process were conducted smoothly.



Simhadri Thermal Power Plant



Central Control Room

Rating

Effectiveness, Impact	a	Overall Rating A
Relevance	a	
Efficiency	a	
Sustainability	a	

Key Operation and Effect Indicators

		2003/04	2005/06	2007/08	2009/10
Maximum Output (MW)	Plan	1,000	1,000	1,000	1,000
	Actual	1,000	1,000	1,000	1,000
Plant Load Factor (%)	Plan	56.08	85.00	85.00	85.00
	Actual	87.90	88.38	88.57	97.27
Availability Factor (%)	Plan	80.00	89.00	89.00	89.00
	Actual	90.30	93.72	87.68	94.38
Auxiliary Power Ratio (%)	Plan	8.00	7.50	7.50	6.00
	Actual	<8.00	<7.50	<7.50	<6.00
Gross Thermal Efficiency (%)	Plan	33.60	35.00	35.00	35.00
	Actual	>33.60	>35.00	>35.00	>35.00
Net Electricity Energy Production (GWh)	Plan	4,495	6,962	6,962	6,962
	Actual	7,244	7,304	7,324	8,051

[Source] NTPC

* Plant Load Factor (%) = Gross Generated Energy / (Rated Output x Annual Hours) x 100

Availability Factor (%) = (Annual Operating Hours / Annual Hours) x 100

Auxiliary Power Ratio (%) = (Annual Auxiliary Power Consumption / Annual Power Generation) x 100

Gross Thermal Efficiency (%) = Annual Power Generation x 860 / (Annual Fuel Consumption x Fuel Calorific Value) x 100

Net Electricity Energy Production (GWh) = Annual Power Generation - Annual Auxiliary Power Consumption

Sustainability

NTPC, the operation and maintenance (O&M) agency of this project, is the largest electric power company in India. It has received many awards presented by the Ministry of Power to outstanding power stations, and the technical capacity of its staff is very high. Simhadri Power Plant conducts maintenance based on the annual maintenance plan, and manuals and the like are established and utilized. No major problems have been observed in the O&M system, technology, and financing, therefore, sustainability of the project is high.

Key Point of Evaluation: Project Satisfies Environmental Standards

This project has been praised for taking environmental and anti-pollution measures, as well as for minimizing the project's adverse environmental impact through the implementation of JICA's supplementary study (Special Assistance for Project Implementation [SAPI]). At the same time, it has satisfied appropriate environmental standards. Thus, this project serves as a good reference for other projects.

The Environment Impact Assessment (EIA) of this project was conducted by NTPC in 1994 prior to the project's start, and Techno-Economic Clearance was obtained from AP State. However, with the enactment of new government regulations in India thereafter, a supplementary environmental study was conducted through SAPI in 2001 after the project started, which recommended improvements to environmental measures and revised fly ash utilization measures. Other recommendations included the installation of additional environmental monitoring stations around the power plant, in order to enhance the monitoring of the ambient air concentration. Three monitoring stations were additionally installed by NTPC.

Further still, at the monitoring stations, the ground concentration of major parameters used to measure air pollution levels, such as Suspended Particulate Matter (PSM), Sulfur Dioxide (SO₂), and Nitrogen Oxide (NO_x), all met Indian environmental standards (same with effluent water), thanks to the installation of a high stack, establishment of electrostatic precipitators, utilization of low-sulfur coal, and the installation of desulfurization equipment. The monitoring data is checked online at the central control room of the power plant, and the same monitoring data can be accessed at the NTPC headquarters and the Ministry of Environment and Forests, which manages the environmental problems of the region.



Interview of resettled people

Conclusion, Lessons Learned and Recommendations

In light of the above, this project is evaluated to be highly satisfactory.

The land acquisition and resettlement process is a bottleneck to the implementation of some ODA projects. In this project, the compensation procedures were implemented in a transparent and participatory manner with the involvement of various stakeholders, including NTPC, landowners, the municipality government, and community representatives, based upon clear guidelines. Also, the compensation land price was higher than the ordinary price and under favorable terms, as the land price was determined based on negotiations with landowners on the basis of the available market land price. This process was integrated with a community development program aimed at

improving the inhabitants' living standards as well as creating employment opportunities. This helped to increase inhabitants' understanding and cooperation for the project, and the land acquisition and resettlement process proceeded smoothly. Such a comprehensive approach for land acquisition and resettlement can be a best practice to be shared with other projects.

Recommendations to the executing agency are: (1) To expand the green belt area in order to cope with the environmental risks brought about by future population growth in the communities neighboring the plant; and (2) To address employment issues of resettled inhabitants (consider utilization of public support measures and promotion of initiatives in collaboration with local governments and NGOs).

* All ex-post evaluation reports including this are available on the JICA website: <http://www.jica.go.jp/english/operations/evaluation/index.html>

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Development Policy Loan (DPL) (I) - (IV)

Asia
Indonesia

Promoting policy and institutional reforms in Indonesia through budget support

External Evaluators: Masumi Shimamura and Kenji Wakasugi, Mitsubishi UFJ Research and Consulting Co. Ltd. / Masami Sugimoto, SHINKO Overseas Management Consulting, Inc.

Outline of the Project

- Loan amount / Disbursed amount:(I) 10,794 million yen; (II) 11,729 million yen; (III) 11,777 million yen; (IV) 22,080 million yen (Disbursed amounts all equal to loan amounts)
- Loan agreement: (I) March 2005; (II) March 2006; (III) March 2007; (IV) March 2008
- Terms and conditions: (I) 1.3% interest rate; 30-year repayment period (including a 10-year grace period); general untied; (II) 1.5% interest rate; 30-year repayment period (including a 10-year grace period); general untied; (III) 1.5% interest rate; 30-year repayment period (including a 10-year grace period); general untied; (IV) 0.7% interest rate; 15-year repayment period (including a 5-year grace period); general untied
- Final disbursement date: (I) March 2005; (II) March 2006; (III) March 2007; (IV) March 2008
- Executing agencies: Ministry of Finance, Coordinating Ministry of Economic Affairs (EKUIN) (I-IV)

Project Objectives

Overall Goal: To contribute to the
 (1) Promotion of Indonesia's macroeconomic stability;
 (2) Improvement of investment climate;
 (3) Improvement of public financial management and anti-corruption efforts; and
 (4) Poverty reduction.



Project Purpose: To continue policy and institutional reforms and to promote policy dialogue between Japan and Indonesia



Output: Coordination with the World Bank and ADB and support of policy and institutional reforms in Indonesia

Evaluation Approach

Recently, in addition to conventional project-type assistance, budget support assistance has been provided to support improvements in the policies and systems of partner governments, or to assist countries affected by financial and economic crises. JICA, too, has provided this type of assistance, including development policy loans, by mainly utilizing ODA loans. Nonetheless, evaluation methods for budget support assistance are not necessarily established internationally. Hence, in initiating the evaluation of this project, the evaluation framework was developed through reviewing the activities of other donors and JICA related to evaluation methods for budget support in general, in cooperation with domestic advisors who have in-depth knowledge of budget support, donor coordination, and public financial management.

The Development Policy Loan (DPL) for Indonesia is intended to support the country's macro-economy faced with the financial gap, and to support policy and institutional reforms promoted by the Indonesian government itself such as "improvement of investment climate"; "public financial management"; and "service delivery for poverty reduction". JICA has supported Indonesia's reforms through the provision of funds by way of budgetary support, policy dialogue with

the Indonesian Government, donor coordination, and formulation of institutional frameworks such as the organization of taskforces. In light of the structure of DPL assistance, an evaluation framework based on three independent perspectives was developed to analyze achievements during ex-post evaluation: (1) achievements related to the Indonesian Government's policy and institutional reform; (2) effects of DPL funding from the macroeconomic perspective; and (3) achievements related to facilitation of policy and institutional reform.

As this evaluation focuses mainly on policy and institutional reform aspects, effects of DPL funding from the macroeconomic perspective (2) mentioned above have been minimalized. At the time of evaluation, Indonesia's reform itself was still ongoing, and it was judged premature to observe the project's effectiveness (tangible changes). Therefore, the evaluation of reforms is restricted to the review of progress from a monitoring perspective. In rating DPL, the existing five criteria of DAC were not applied, but comprehensive judgments were made on a pilot basis from the perspectives of attempts and achievements to facilitate policy and institutional reform, relevance of project, and sustainability.

Achievements and Progress in DPL Components

The achievements and progress of the DPL components of (1) public financial management, (2) improvement of investment climate, and (3) poverty reduction are evaluated as follows: In the area of (1) public financial management reform, although the effect of tangible improvements has to await the further progress of required actions to be taken in succeeding DPL phases, it can be acknowledged from the planned actions taken according to the policy matrix in DPL (I)-(IV) that steady advances have been made towards the realization of this goal in the near future. Regarding (2) improvement of investment climate,

Rating (trial)

Attempts and Achievements	a	Overall Rating A
Relevance	a	
Sustainability	b	

which is expected to promote Indonesia's economic growth and offer benefits to companies operating in Indonesia, reforms in tax administration and customs clearance contributing to the reduction of business transaction costs have been implemented. Progress and effects of reforms have been observed through the integration of customs procedures, and the reduction of time required for customs clearance and VAT refunds. In the area of (3) poverty reduction, each policy action has been fulfilled and its progress can be evaluated favorably. The monitoring of the poverty reduction program, one of the policy actions, has laid the groundwork for improving the efficiency of the program as a whole.

Attempts and Achievements to Facilitate Policy and Institutional Reform

Without DPLs that support Indonesia's policy and institutional reforms, the speed and degree of reform would not have been as high as now, in each of the component areas. Through the DPL process of policy dialogue, donor coordination, and establishment of groups, such as taskforces for the implementation of policy actions, the following effects have been generated: (1) "pushing effect": promotion of reform through supporting reform promoters within the Indonesian Government; (2) "symbolizing effect": demonstration of commitment towards reform of Indonesian Government in and outside the country; and (3) "coordination effect": strengthening of coordination within the Indonesian Government, among donors, and between the Indonesian Government and donors. These effects have contributed to advancing Indonesia's reform process.

Relevance

Reform areas targeted by DPL assistance have been in line with the Indonesian Government's development policy needs and priorities. The functions of DPL coped with the issues faced by the Indonesian Government when advancing reform. In addition, it was appropriate that JICA chose to implement co-financing (DPL) in light of Japan's/JICA's overall assistance policy at the time. Furthermore, from a macroeconomic viewpoint, DPL funding was necessary to fill Indonesia's financial gap. Therefore, the relevance of the project is high.

Sustainability

From the viewpoint of whether DPL would be able to comprehensively cope with the government's important policy issues, there are indications that policy actions are becoming smaller in scale. In addition, it is judged that more time is still required for the coordination mechanism fostered by DPL to become rooted within the government and ensure its sustainability. On the other hand, DPL as a platform for policy dialogue will continue to function as a possible forum to generate fruitful policy proposals for both Japan and Indonesia. The sustainability of DPL's effects is further strengthened by enhanced public financial management, which supports the effective functioning of DPL, and by the establishment of groups for the implementation and promotion of policy actions. Therefore, sustainability of the project is fair.

Conclusion, Lessons Learned and Recommendations

In light of the above, this project is evaluated to be highly satisfactory.

DPL is a program that contributes to framework setting, such as regulations and rules for policy and institutional reform. Therefore, the implementation of policy actions alone will only yield limited changes. Reform is promoted by carrying out finely-tuned technical cooperation (TC). From the donor point of view, DPL and TC are complementary with each other and are expected to generate synergetic effects in various stages of the reform process. Opportunities are increasing for JICA to further utilize experts and actively participate in Indonesia's policy and institutional reform. Therefore, regarding lessons learned, it is crucial to bring into DPL policy dialogue the issues

identified through TC and, at the same time, it is equally important to feed back the policy issues discussed in the DPL framework to the implementation of TC in order to advance reform.

Regarding recommendations to JICA, by utilizing functions which have been formulated and strengthened through DPL and leveraging DPL, it is expected that JICA will, for example, firmly build foundations to realize package-type infrastructure exports from an All-Japan perspective, through ascertaining the needs of the Indonesian Government and maintaining close communication with government officials from the project identification and preparation stage.



Feedback Workshop

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The Project for Strengthening of Polytechnic Education in Electric-Related Technology

Asia
Indonesia

Contributing to development of skilled technicians by strengthening polytechnic institute in electrical engineering

External Evaluator: Yusuke Hasegawa, International Development Center of Japan

Outline of the Project

- Total cost (Japanese side): 1,011.35 million yen
- Period of cooperation: October 1999 to September 2006 (of which follow-up period was October 2004 to September 2006)
- Partner country's implementing organization: Directorate General of Higher Education (DGHE), Ministry of National Education; Electric Engineering Polytechnic Institute in Surabaya (EEPIS)
- The number of experts dispatched: 8 experts (long-term); 119 experts (short-term)
- The number of technical training participants: 31 participants
- Main equipment provided: Computer, calibrators/measuring instruments for research, equipment for experiment, etc.

Project Objectives

Overall Goal: Well-trained electric-related polytechnic teachers are provided to polytechnics nationwide and they provide education needed for skilled technicians in industrial development.



Project Purpose: To provide EEPIS with the ability to educate (1) well qualified electric related polytechnic teachers and (2) skilled information technology technicians as well.



- Outputs:
1. In-service Diploma 4 courses (teachers' training courses/1.5 years) for electronic engineering, electrical engineering, telecommunications engineering, and information technology are established and well managed.
 2. Pre-service Diploma 4 courses (teachers' training courses/4 years) for electronic engineering, electrical engineering, telecommunications engineering, and information technology are established and well managed.
 3. Diploma 3 course for information technology is established and well managed.
 4. In-service teachers' short-training courses in electric-related subjects are established and well managed.
 5. The research and teaching capacity of EEPIS teaching staff members is strengthened.
 6. Management system of EEPIS is strengthened.

Effects of Project Implementation (Effectiveness, Impact)

As part of Indonesia's efforts aimed at the enhancement of polytechnics that develop skilled technicians needed for industrial development, EEPIS was chosen as the national resources polytechnic (NRP) for the education and training of polytechnic teachers in electrical engineering.

All of the newly established courses of EEPIS are well-managed. The number of teachers, as well as the number and share of teachers who earned master's or doctoral degrees, increased, and the number of academic papers presented by teachers has also risen overall. However, although the capacities of existing teachers have increased, the project has not produced a sufficient number of new teachers through D4 courses. Of the graduates of D4 courses in 2007, 8% (2 out of 25 graduates) have become teachers at polytechnics, while the figure remains at 20% if those who became vocational high school teachers are included. Meanwhile, graduates of D3 courses are much in demand among companies, and almost all graduates find employment or start their own business at an early stage. The courses are thus believed to have developed human resources sought by companies.

The project has produced various impacts further to the overall goal, both inside and outside Indonesia. On the one hand, EEPIS has served as a model school for other polytechnics and educational institutions in Indonesia. On the other hand, EEPIS has provided assistance for the capacity development of higher educational institutions for engineering in East Timor and Rwanda (dispatching experts from EEPIS for JICA projects and receiving trainees). Based on the above facts, although the overall goal is not sufficiently achieved so far, this project has been producing certain effects, therefore its effectiveness is fair.



Participants review their study materials in electrical engineering

Relevance

The project was in line with the national development plan of Indonesia (PROPENAS), which emphasizes the improvement in quality of higher education as well as the strengthened

* Indonesia's higher education institutions consist of academic type (including universities, specialized universities, and single department colleges) and specialized and vocational type (including polytechnics and academies). Both types of institutions are intended for high school graduates. Specialized and vocational education institutions offer Diploma 1 (D1) through Diploma 4 (D4) programs.

Rating

Effectiveness, Impact	b	Overall Rating B
Relevance	a	
Efficiency	a	
Sustainability	b	

Number of EEPIS Teaching Staff by Degree

(Unit: Persons)

Fiscal Year	Department								(A) Master+Doctor Total	(B) Total Teaching Staff	(A)/(B)
	Electronic		Telecom		Electric		IT				
	Master	Doctor	Master	Doctor	Master	Doctor	Master	Doctor			
1999	2	0	2	1	4	0	0	0	9	69	13.0%
2000	2	0	4	1	4	0	0	0	11	80	13.8%
2001	2	0	5	1	4	0	1	0	13	117	11.1%
2002	3	0	8	1	4	0	2	0	18	105	17.1%
2003	7	1	10	1	6	0	6	1	32	109	29.4%
2004	13	1	13	1	8	0	6	1	43	108	39.8%
2005	16	2	14	1	11	0	10	1	55	122	45.1%
2006	19	3	16	1	12	0	13	1	65	120	54.2%
2007	23	3	19	1	13	0	16	1	76	133	57.1%
2008	26	3	22	1	13	1	16	1	83	133	62.4%
2009	29	3	24	1	18	2	19	1	97	138	70.3%

[Source] EEPIS

connections with industry. It also coincided with Indonesia's needs for skilled technicians and Japan's ODA policy as of the project's start. The cooperation policy which emphasized the improvement of counterpart (C/P) staff capabilities by providing training in Japan or additional education within the country was appropriate, as well as the methodology adopted for the project - e.g., the dispatch a number of short-term experts for new courses, which consisted of technical curriculums, while dispatching long-term experts for the D3 course in a new subject. Therefore, the relevance of the project is high.

Efficiency

Each element, notably the dispatch of experts, the acceptance of trainees, and provision of equipment, were implemented mostly according to plan. Apart from a small portion, the inputs were overall appropriate. The project cost exceeded the plan by around 20-30%. However, the inputs for the cooperation for the Pre-service IT D4 course, which was later added, were not included in the original plan. Considering these circumstances, the cost difference between actual and planned cost is small. Therefore, efficiency of the project is high.

Sustainability

The Indonesian government regulation regarding teacher qualification, set forth in 2005, defined minimum academic requirement for polytechnic teachers as Master's degree. As a result, D4 graduates are no longer automatically qualified as polytechnic teachers. Furthermore, while the operational capacity of EEPIS was strengthened, the operational capacity of the Job Arrangement System (JAS) was not necessarily strengthened. Therefore, there are some problems with the policy background and the structural aspect of the executing agency, and the sustainability of the project's effects is fair.

Key Point of Evaluation: High Capacity of Executing Agency allows Delivery of Impact

EEPIS continues to serve as a central organization in Indonesia for producing skilled technicians in electrical engineering which is one of the goals of this project. Drawing on the high level of capacity accumulated through the project, EEPIS also succeeded in having various impacts after the project ended. Examples include the provision of new in-service D4 (1.5 years, evening) courses through web-based distance learning and study programs in three new subjects, provision of support to other polytechnics, and participation in robot contests. Bearing in mind that EEPIS has actively undertook activities and expanded operations in order to develop technicians, and furthermore, has had impact domestically and internationally, a lesson learned identified by the ex-post evaluation is that when the same kind of cooperation for educational institutions is being planned, it is important to ascertain whether the executing agency has sufficient capacity including financial and management capability and strong commitment to the project activities.

Conclusion, Lessons Learned and Recommendations

In light of the above, this project is evaluated to be satisfactory.

Cooperation which involves the establishment of a new course, or the improvement of management at an educational institution, requires a long time for input to yield any output. As in this project, output may be generated after the project ends. A lesson learned may be to include in the project design a mechanism which will enable the executing agency to confirm the achievement of outputs even after the project

ends. This includes the hosting of a debrief meeting when output is generated.

After more than 20 years of cooperation from Japan, EEPIS has developed to become an influential cooperation partner of JICA. Considering EEPIS's high capabilities and motivation, JICA is recommended to sustain its relationship with EEPIS as an organization that supplies experts for JICA projects or offers third country trainings as an important cooperation resource.



Completion ceremony for training provided by EEPIS for Rwandan educational institution

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Project for Improvement of Equipment for Demining Activities (Phase IV)

Asia
Cambodia

Largely contributing to promote landmine clearance in Cambodia

External Evaluator: Koichiro Ishimori, Value Frontier Co., Ltd.

Outline of the Project

- Grant limit / Actual grant amount: 1,761 million yen / 1,525 million yen
- Exchange of notes date: August 2004
- Project completion date: June 2005
- Implementing agency: Cambodian Mine Action Centre (CMAC)

Project Objectives

Overall Goal: To contribute to the improvement of social and economic infrastructure, including ensuring peoples' safe livelihood and promoting the re-use of national land and resettlement



Project Purpose: To increase the efficiency and safety of landmine clearance activities



Output: Replenishment of landmine clearance equipment of the implementing agency and construction of the Central Workshop



Central Workshop



Brush cutter

Effects of Project Implementation (Effectiveness, Impact)

The landmines that were buried across the country (estimated to be 4 million to 6 million) due to the Vietnam War and the Civil War in Cambodia from the early 1960s to the early 1990s are still not cleared even today. For this reason, the Government of Cambodia established the Cambodian Mine Action Centre (CMAC) in 1992 and landmine clearance activities have been conducted. However, equipment aging and malfunctions have decreased the efficiency of CMAC's activities.

This project aimed to increase CMAC's annual clearance area from 10.5 km² in 2003 to 20.0 km² in 2007. 22.1 km² were cleared as of 2005, and the initial objective was achieved ahead of schedule. The total land cleared from 2006 to 2009 was 123.8 km²; thus, the 120 km² target of the National Strategic Development Plan (2006-2010) was also achieved one year ahead of schedule. The annual number of landmine casualties in the project area decreased by a large margin from 664 in 2003 (before the project) to 134 in 2009, owing to the increased land area cleared of landmines and the widespread landmine risk education conducted by CMAC. In addition, in a beneficiary survey of 100 households living in the project area, all responded that the landmine clearance led to the establishment of new schools and health centers, and has allowed them to feel reassured of their lives. Thus, it was confirmed that the project has been contributing to improving the livelihood of residents.

This project has largely achieved its objectives, and therefore, its effectiveness is high.

Relevance

This project was consistent with the landmine clearance goals of the Cambodian Government's Socioeconomic Development Plan and CMAC's Five Year Strategic Plan. It was also in line with the country's mine clearance needs and Japan's Country Assistance Strategy for Cambodia. Therefore, the relevance of the project is high.

Efficiency

The project period was nine months as planned, and the project cost was lower than planned. Therefore, the efficiency of the project is high.

Rating

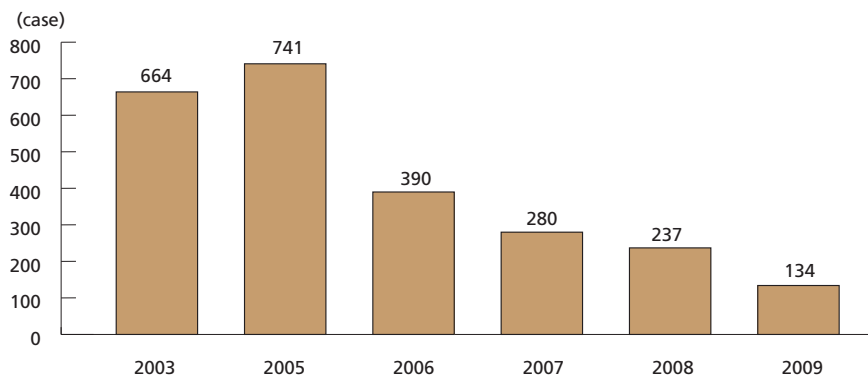
Effectiveness, Impact	a	Overall Rating A
Relevance	a	
Efficiency	a	
Sustainability	a	

Operation and Effect Indicators of Landmine Clearance Activities

Indicators (unit)	2003	2005	2006	2007	2008	2009
Land cleared of landmines (km ²)	10.5	22.1	26.8	27.7	33.8	35.5
Locations cleared of landmines (place)	225	543	585	570	755	572
Accidents during clearance (case)	6	11	6	4	0	1

[Source] CMAC

Number of Landmine Casualties in the Project Area



[Source] CMAC



A staff searching for landmines

Sustainability

Operation and maintenance is under control. Six Demining Units (DU) of the implementing agency oversee equipment operations, while the Central Workshop constructed by this project appropriately conducts maintenance. No problems have been observed related to the technical capacity and financial situation of the implementing agency. Therefore, sustainability of the project is high.

Conclusion, Lessons Learned and Recommendations

In light of the above, this project is evaluated to be highly satisfactory.

Lessons learned were that major factors contributed to reducing the annual number of landmine related casualties were, notably, the increases in the land area cleared of mines, and the widespread of landmine risk education towards people by CMAC. Due attention should be paid to the implementation of landmine risk education when extending assistance for landmine clearance activities in other countries in the future.

Recommendations to the implementing agency include

diversifying sources of funds and expanding funds for landmine clearance activities. Funds may be requested from governments of developed and developing countries that have not supported CMAC, or multinational companies that are interested in landmine clearances as their Corporate Social Responsibility (CSR).

Recommendations to JICA include continuing offering assistance for the replenishment of aging equipment, in order to maintain the pace of CMAC's activities.

BOX

Assistance for Countries Undergoing Reconstruction or Countries with Weak Governance

JICA has been strengthening its assistance for post-conflict countries in the midst of the reconstruction process as well as fragile countries with weak governance. A comparative analysis of this fiscal year's ex-post evaluations of JICA's projects in these countries showed that in some cases, efficiency (extended project period) and sustainability (fragile implementation systems) had room for improvements.

The reasons for the delays included delays in customs clearance of imported materials (Angola), delays in project design review and government approval (Nepal), long transport times due to numerous checkpoints and unfinished roads (northeastern Sri Lanka), and measures for the multinational construction team to leave the country due to the worsening security situation associated with the presidential election (Afghanistan). On the other hand, there were also cases like the Cambodia project, in which the activities of the implementing agency were appropriate and the construction completed on time.

As for sustainability, challenges included fragile maintenance structures owing to budget shortages and shortages in the number and capacities of technical staff (Timor-Leste). On the

other hand, in some cases, technical cooperation projects and training in Japan, aimed at developing staff capacity, were conducted in coordination with financial cooperation projects, which led to increased sustainability (Cambodia, Timor-Leste).

From the analyses, it is evident that assistance for these countries is effective if sufficient information is gathered about the political and social situations, and on this basis, the project establishes cooperative ties with stakeholders, sets a project period with some leeway, and is implemented in parallel with assistance for increasing project sustainability.



Capacity-development through internal training (Nepal)

* All ex-post evaluation reports including this are available on the JICA website: <http://www.jica.go.jp/english/operations/evaluation/index.html>

Jilin Song Liao River Basin Environmental Improvement Project

Asia
China

Contributing to mitigate further deterioration of water quality through construction of sewage/wastewater treatment facilities

External Evaluator: Kenji Momota, IC Net Limited

Outline of the Project

- Loan amount / Disbursed amount: 12,800 million yen / 12,638 million yen
- Loan agreement: December 1998
- Terms and conditions: 0.75% interest rate; 40-year repayment period (including a 10-year grace period); partial untied
- Final disbursement date: July 2005
- Executing agency: People's Government of Jilin Province

Project Objectives

Overall Goal: To improve the standard of living and health of residents in and around the Songhua and Liao River Basins

Project Purpose: To improve the water quality of both rivers

Output: Implementation of environmental pollution control projects in both river basins

Effects of Project Implementation (Effectiveness, Impact)

In the basins of Songhua River and Liao River in Jilin Province, the water pollution had become serious due to the recent economic development, which brought with it increases in household sewage and industrial wastewater generation that far exceeded the capacity of sewage and wastewater treatment facilities. To implement control-at-source measures that were urgently needed, this project was scheduled to carry out 9 sub-projects*: (1) 5 Sewage Treatment Projects; (2) 3 Industrial Wastewater Treatment Projects; and (3) 1 Monitoring Capacity Enhancement Project.

The Sewage Treatment Projects play a pivotal role in the sewage treatment services of the cities concerned. The projects have shown good performance in removing pollutants; both the Chemical Oxygen Demand (COD) and Biochemical Oxygen Demand (BOD) removal rates were better than the planned targets, despite the fact that the amount of sewage treated was 61% of the planned amount. On the other hand, none of the Industrial Wastewater Treatment Projects are currently still in operation (dismantled after construction, operation discontinued due to bankruptcy), and these projects cannot be considered to have produced effective results. Regarding monitoring capacity, the project was effective in increasing the accuracy of the water quality measurements and increasing the technical capability of the officials. Concerning water quality improvement in nearby rivers and water systems, although no clear trends were observed (see "Key Point of Evaluation" on p.35), about 60% on average responded in the beneficiary survey that water quality had improved. Furthermore, it was confirmed from interviews with farmers and fishermen that a certain degree of improvement was made with respect to the impact of water quality improvement on their agricultural/fishery activities. Considering the above, this project has somewhat achieved its objectives, and therefore, its effectiveness is fair.

Relevance

Both at the time of project appraisal and ex-post evaluation, the project was sufficiently in line with the development plan and needs of China and Japan's prior ODA policy. Therefore, its relevance is high. However, there was room for improvement in the establishment of project objectives and the selection of sub-projects.

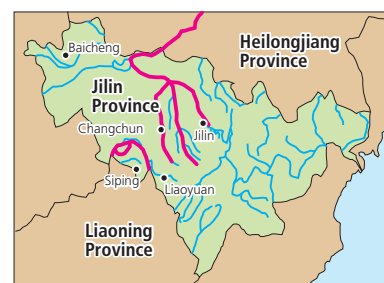
Efficiency

Although the project cost was within the plan, the project period far exceeded the plan. Therefore, efficiency of the project is fair. The reasons for the delay include the outbreak of SARS in 2003/2004 that forced suspension of construction work and delay in procurement of local currency needed for the project.

* One project was later cancelled and implemented using Chinese funds.



Sewage treatment facility



River basin areas covered by this project

Rating

Effectiveness, Impact	b	Overall Rating C
Relevance	a	
Efficiency	b	
Sustainability	b	

Plan/Actual Comparison of Major Operation and Effect Indicators

Indicator (unit)	Total (sub-project statistics)		
	Plan	Actual	Actual/Plan
Sewage treated (x 10,000 t/d)	63	38	61%
Reference: population served (x 10,000)	198	242	122%
COD removed (t/y)	61,605	43,119	70%
COD removal rate (%)	64	86	136%
BOD removal (t/y)	39,374	24,281	62%
BOD removal rate (%)	86	91	106%
SS removed (t/y)	59,614	25,736	43%
SS removal rate (%)	88	94	107%

*1 COD, BOD, SS = Indicators used to represent the degree of water contamination. The higher the values, the higher the degree of water contamination.
 *2 Removal rate is calculated by comparing the quality of incoming sewage and that of outgoing effluent at each treatment plant. The figures shown here are compiled from the average rate of each treatment plant.
 *3 No verifiable data were available on the removal rates of COD, BOD and SS Wastewater Treatment Projects. The evaluation is based only on the data for Sewage Treatment Projects.
 [Source] Response of questionnaire administered to executing agency

Sustainability

The Environmental Protection Agency of Jilin Province that oversees and supervises the entire project and the state-owned enterprises which are the executing agencies of sub-projects still in operation (sewage treatment plants) are in good condition respectively, showing no major concerns about their operation and maintenance, technological capacity, and finances. Meanwhile, among the sub-projects, the industrial wastewater treatment is no longer in operation. Therefore, sustainability of the project's effects is fair.

Key Point of Evaluation: Evaluation from the Viewpoint of "Mitigating Further Deterioration of Water Quality of Targeted Water Systems"

This ex-post evaluation attempted to evaluate the project against the project objective assumed at the time of project appraisal, i.e., "improvement of water quality of nearby rivers" sub-projects. However, no clear trend was apparent. Reasons behind this may include the following. (1) Though termed "nearby rivers," some span more than 100 km, and furthermore, the impact of other sewage and wastewater beyond the scope of this project prevents the measurement of the project's direct effects. (2) In the last two years alone, wastewater generation in the entire city of Changchun has increased.

In the case of this project, many external factors affect the project and its objective – improving the water quality of rivers – that no exact evaluation is possible. Nonetheless, those sub-projects that are operating play an important role as the sewage treatment facilities in their respective communities, and their pollutant removal function is performed generally as planned.

In the context of such increases in the wastewater generation in the entire basin, this project needs to be evaluated not from the viewpoint of "improvement of water quality of entire basin", but rather from the viewpoint of "mitigating further deterioration of water quality of targeted water systems and removing pollutants". If the project objective is established based on the viewpoint of "mitigating further deterioration of water quality of targeted water systems and removing pollutants", then there have been good results. Had it not been for this project, the quality deterioration of the water systems would have aggravated further. Thus, the project has produced certain effects, from the perspective of preventing the deterioration of targeted water systems.



Beneficiary survey

Conclusion, Lessons Learned and Recommendations

In light of the above, this project is evaluated to be fairly satisfactory.

The sub-projects that were cancelled or discontinued were vulnerable to bearing the impact of the Chinese government policy of privatizing state-owned enterprises and other major changes in the business climate of the time because the executive agencies of these sub-projects were private companies. Regarding lessons learned for program-type projects that consist of sub-projects, when executing agencies which are susceptible to market situations are involved as in this project, it is essential that the project design permits the readjustment of sub-projects according to any situation changes during the project implementation, and a flexible approach is taken during the implementation phase.

In addition, while this project had set a large objective of

"improving water quality in Songhua/Liao River Basin", it is considered too ambitious, given the size and scope of the project. To permit the appropriate analysis and evaluation of development outcomes, it is necessary to set objectives at the time of project appraisal that are more clearly relevant to the project and are more readily verifiable. With respect to sub-project selection, it is necessary to set out the selection criteria with stronger attention to the overall project objective, and apply the criteria to the appraisal and examination of sub-projects.

Regarding recommendations, the executing agency is encouraged to work more proactively toward improved collection and disclosure of water quality data that is important for project monitoring.

* All ex-post evaluation reports including this are available on the JICA website: <http://www.jica.go.jp/english/operations/evaluation/index.html>

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Northern Rural Infrastructure Development Project

Asia
Bangladesh

Contributing to vitalize the rural economy through construction and rehabilitation of roads, etc.

External Evaluator: Keisuke Nishikawa, Ernst & Young Advisory Co., Ltd.

Outline of the Project

- Loan amount / Disbursed amount: 6,593 million yen / 6,304 million yen
- Loan agreement: July 1999
- Terms and conditions: 1.0% interest rate; 30-year repayment period (including a 10-year grace period); general untied
[Rural Development Engineering Center portion: 0.75% interest rate; 40-year repayment period (including a 10-year grace period)]
- Final disbursement date: March 2007
- Executing agency: Local Government Engineering Department (LGED)

Project Objectives

Overall Goal: To contribute to regional economic development



Project Purpose: To improve the distribution network of the region



Output: Development of rural road (Feeder Road B), construction of Rural Development Engineering Center (RDEC), and rehabilitation of roads damaged by the 1998 flood, in five districts (Jamalpur, Sherpur, Mymensingh, Netrokona, and Kishoreganj) in the northern area of Bangladesh



Rural road built by the project (Mymensingh District)



Bridge constructed by the project (Jamalpur District)

Effects of Project Implementation (Effectiveness, Impact)

In the northern areas of Bangladesh, the inadequacy of markets and rural roads has impeded transport and commerce flows. Constructing and improving roads and other rural infrastructure on a continuing basis is important for developing the regional economy. For this reason, this project was implemented through co-financing with the Asian Development Bank (ADB) and other organizations.

As a result of this project, annual average daily traffic (AADT) generally increased, the average speed of travel improved significantly (3 km/hr to 20 km/hr), and transportation costs decreased to about one-third overall. Road construction also generated numerous direct employment, and provided employment opportunities to about 1,200 women in routine road maintenance work. Furthermore, access to government services, medical care, education and other social services improved significantly, and the construction of highly-durable structures prevented damage from flood. The number of retail shops along the road also increased noticeably, and all respondents to a beneficiary survey answered that their income increased as a result of the road construction and improvements. This project has largely achieved its objectives; therefore, its effectiveness is high.

Relevance

From the time of project planning to the ex-post evaluation, the development plan of Bangladesh consistently underlined the importance of rural development for mitigating poverty. Japan's ODA policy was in alignment with the plan. Rural infrastructural improvements are essential to the socioeconomic development of rural areas, where 80% of the Bangladeshi population reside, and thus continue to have high importance. Thus, the relevance of this project is high.

Efficiency

The project cost was lower than planned (96% of planned cost). While the project period was slightly longer than planned (104% of planned period), this was due to additional construction work in response to the damages incurred from the 2004 flood. The change in plan was relevant; therefore, efficiency of the project is high.

Rating

Effectiveness, Impact	a	Overall Rating A
Relevance	a	
Efficiency	a	
Sustainability	b	

Improved Average Speed of Travel and Reduced Transportation Costs*

District	Speed of travel (km/hr)		Transportation costs (Taka/km)	
	Before	After	Before	After
Jamalpur	3	10	7.46	1.83
Sherpur	3	20	7.55	2.27
Mymensingh	3	20	7.25	2.45
Netrokona	3	20	5.55	2.92
Kishoreganj	4	20	5.44	2.05

* The transportation cost reductions represent the difference between the fees the residents paid for the means of transportation before and after the project.
 [Source] Beneficiary survey

Sustainability

The segments of the road that were developed and/or improved by the project were generally in good condition, thanks to the routine maintenance performed by women's groups. The RDEC Setting-up Project (technical cooperation project) has also helped to prevent major problems from arising on the technical front. However, some problems were observed related to the prospects of securing the maintenance budget. Therefore, the sustainability of the project is fair.

Key Point of Evaluation: Synergistic Effects of ODA Loan and Technical Cooperation

The RDEC constructed by this project is a training facility of LGED. A two-phase JICA technical cooperation project has been underway since the RDEC was constructed (2003-2006, 2007-2011[plan]) to set up its training program, with the purpose of enhancing engineers' skills.

As a result of Japan's support, RDEC has been able to hold a range of training programs, which has contributed immensely to improving the capacities of LGED staff in charge of rural infrastructure development and maintenance. According to a questionnaire survey administered to the trainees, 97% responded that the training was either "very useful" or "useful." 60% responded that they "fully" applied the knowledge they gained in their routine activities, while another 39% responded "partly". Therefore, both trainee satisfaction and the frequency with which they use the acquired knowledge at work are high. All respondents agreed that "RDEC is functioning as the nucleus of the LGED's technical capacity enhancement". As seen from above, in terms of increasing the operation and maintenance capacity from a mid- to long-term perspective, it is extremely effective to implement hard assistance (construction of RDEC) in parallel with other assistance intended to set up and establish a training program within the center.



Women's group performing road maintenance work

Conclusion, Lessons Learned and Recommendations

In light of the above, this project is evaluated to be highly satisfactory.

In terms of lessons learned, this road maintenance scheme through the organization of women's groups may be replicable and applicable to similar projects in other countries as a model for rural road maintenance. The combination of the loan project and the ensuing technical cooperation project was a major characteristic of this project. Its approach of enhancing the capacity of LGED staff while utilizing the training facility

constructed with ODA loans, contributed to increasing the sustainability of this project, and the two had clear synergy.

The executing agency is recommended to secure the maintenance budget, as well as consider cost reduction measures, including outsourcing some of the pavement repair work to private companies. It is also recommended that JICA, together with ADB and other donors, encourages the Bangladeshi Government to place a stronger focus on road repair and maintenance.

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The Project for Improvement of Roads between Dili and Cassa

Asia

Timor-Leste

Supporting post-independence reconstruction through road rehabilitation

External Evaluators: Akihiro Nakagome and Hisae Takahashi, Ernst & Young SN Global Solution Co., Ltd.

Outline of the Project

- Grant limit / Actual grant amount: 1,492 million yen / 1,483 million yen
- Exchange of notes date: May 2004
- Project completion date: February 2006
- Implementing agency: Ministry of Transport, Communication and Public Works (Current: Ministry of Infrastructure [MOI])

Project Objectives

Overall Goal: To promote the vitalization of agriculture in the neighboring regions, and improve the living standard of residents



Project Purpose: To ensure safe and smooth transportation between the two areas



Output: Rehabilitation of the roads and bridges of the Dili-Cassa portion of a core artery

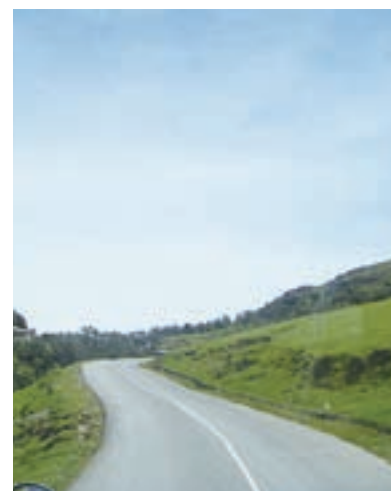


A road with surface damage

Effects of Project Implementation (Effectiveness, Impact)

In Timor-Leste, 70% of infrastructure was destroyed due to the civil war and destruction which occurred just after the direct balloting to decide on extension of self-rule in 1999. Following the interim rule of the United Nations, the country gained independence in 2002. However, the economic situation has worsened again. The section of the road covered by this project is part of a core artery linking the capital city of Dili with Suai, a major city in the south and a center for agricultural development. The road is a vital part of the country's distribution network. However, the road was seriously damaged, due to heavy rainfall on steep slopes with fragile ground in mountain areas.

The traffic volume for the road sections rehabilitated under the project increased, by a large margin, compared to the time of planning. For example, traffic volume increased between Aileu and Aituto, between Aituto and Ainaro, and between Ainaro and Cassa by 88%, 77%, and 300%, respectively. The time required to travel between Ainaro and Cassa, for instance, has also been cut by roughly one-half. In the beneficiary survey, 89% responded that "access to markets or public services became easier owing to the improvement of the road", and 94% responded that "the improvement of the road contributed to promoting agricultural activities in this area". This project has largely achieved its objectives, therefore its effectiveness is high.



Rehabilitated Dili-Cassa Road

Relevance

Both at the time of planning and ex-post evaluation, this project was in alignment with the National Development Plan that specified transport infrastructure improvements, as well as with Japan's ODA policy. The road section covered by this project is a core artery linking the capital city with a major city that serves as a center for agricultural development. For this reason, this project has been highly relevant with the country's development plan, development needs, as well as Japan's ODA policy, therefore its relevance is high.

Efficiency

Both project period and project cost were mostly as planned, therefore, efficiency of the project is high.

Sustainability

The National Directorate of Roads, Bridges and Flood Control (DRBFC) of the MOI operates and manages roads and bridges since the project's completion. However, due to personnel

Rating

Effectiveness, Impact	a	Overall Rating B
Relevance	a	
Efficiency	a	
Sustainability	c	

Qualitative Effects, Etc. of Road Rehabilitation

Saving transit time

Do you think the transit time to access to market as well as public services has been saved ?	Yes	No
	99(98%)	2(2%)

Problems before the project

What kind of traffic problems did you have before the improvement of this road? (Multiple Answers)	Deterioration of road / bridge	Long transit time	Others
	92	38	4

Improvements on the above problems

Were those problems resolved or improved after the rehabilitation?	Yes	No	N/A
	90(89%)	7(7%)	4(4%)

Vitalization of agriculture

Do you think the improvement of this road contributed to promoting agricultural activities in this area ?	Yes	No	N/A
	95 (94%)	3 (3%)	3 (3%)

How did the improvement of road contribute to agricultural activities? (Multiple Answers)	Transportation time saved	Access to market improved	Crops damaged in transit decreased
	48	40	29

[Source] Beneficiary survey

and budgetary shortages, damages were observed on some sections of the road covered by this project, including cracking and defects. Some sections were confirmed as not being in a sufficiently maintained state. In other cases, damage affecting road safety was confirmed. Major problems have been observed in terms of the structure, technology, and financial situation in the maintenance of this project; therefore, the sustainability of the project's effects is low.

Key Point of Evaluation: Increased Sustainability through Coordination with Technical Cooperation Project

This evaluation raised some concerns over sustainability. However, road maintenance is expected to improve through the JICA technical cooperation project for the MOI, "The Project for the Capacity Development of Road Works in Timor-Leste", which started in June 2010.

Prior to this project, the "The Project for the Capacity Building of Road Maintenance" was implemented from 2006 to 2008. The project developed a road maintenance database and several manuals for the DRBFC. It also developed an equipment registry within the Public Institute of Equipment Management (IGE) of the MOI, and technical assistance was provided on the use of the manuals. However, the project outcomes have not been sufficiently utilized due to organizational and individual capacity shortages and personnel shortages. Therefore, the sustainability of this Grant Aid project was evaluated to be low.

In view of the importance of sustaining these outcomes, the Technical Cooperation project currently being implemented aims to provide technical guidance on construction and maintenance as well as improve the management of the overall road maintenance process through the OJT.

Timor-Leste is a new country that gained independence in 2002. Its governance system is insufficient, and the country continues to struggle with developing human resources who will play critical roles in the society. In Timor-Leste, therefore, this aid framework of grant aid combined with capacity building through technical cooperation has been appropriate.

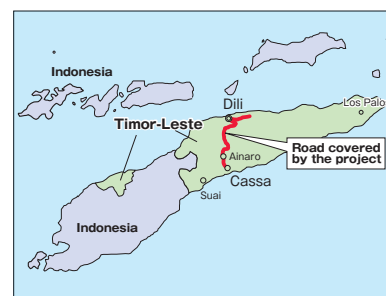
Improvement in living standard

Has the access to markets or public services become easier after 2005 owing to the improvement of the road?	Yes	No
	90 (89%)	11 (11%)

To which place has it become easier to get access? Please choose all that correspond. (Multiple Answers)	Market	Church	Education Services
	101	44	35
	Shops	Health Services	Others
	35	19	5

Have you experienced any changes in your income due to the improvement of the access to market or public services?	Yes	No
	87 (86%)	14 (14%)

(To the 87 respondents who answered "yes" to the above question) How has your income changed after the rehabilitation of road & bridge?	Increased	Decreased	N/A
	61 (70%)	14 (16%)	12 (14%)



Conclusion, Lessons Learned and Recommendations

In light of the above, this project is evaluated to be satisfactory.

A lesson learned is, for projects in countries with weak governance such as Timor-Leste, the items reviewed during project formulation need to include giving advice on methods of maintaining relevant data, along with project implementation. Furthermore, when considering the project plan, care needs to be given to ensure that it takes into consideration the balance between project cost and effects that can be realized over the medium- to long-term, based on a more careful detailed study of conditions in the field and on ascertaining the maintenance capabilities of the implementing agency on which project

sustainability depends.

Regarding recommendations to the implementing agency, it is noted that road damage resulting from installation of water pipes and conditions in which excessive driving speeds impeded traffic safety were confirmed. For this reason, it is recommended that future planning is conducted which will help maintain the roads and bridges comprehensively in the future. The DRBFC should play a central role in such planning, in cooperation with the Department of Water and Sanitation (a part of the MOI in charge of water and sewer pipes), the police (in charge of traffic controls), and other agencies.

* All ex-post evaluation reports including this are available on the JICA website: <http://www.jica.go.jp/english/operations/evaluation/index.html>

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Lower Agusan Development Project (Irrigation Component)

Asia
Philippines

Through joint evaluation, executing agency proposes improvement plan

External Evaluator: Haruko Awano, IC Net Limited*

Outline of the Project

- Loan amount / Disbursed amount: 4,040 million yen / 3,899 million yen
- Loan agreement: August 1995
- Terms and conditions: 2.7% interest rate (2.3% for consulting services); 30-year repayment period (including a 10-year grace period); general untied
- Final disbursement date: June 2006
- Executing agency: National Irrigation Administration (NIA)

Project Objectives

Overall Goal: To contribute to regional economic development



Project Purpose: To improve the living standard of farmers and increase rice production in the area



Output: Construction of irrigation facilities covering 7,930 ha of farmland in the lower Agusan River basin



Irrigation pumping station on the East bank of Agusan River

Effects of Project Implementation (Effectiveness, Impact)

The lower Agusan River basin is blessed with abundant rainfall and fertile plain, and has a big potential for agricultural development. However, due to the frequent flooding of the river, a development plan comprised of flood control and irrigation project components was proposed by the Philippines Government.

In the project area (of the irrigation component), rice production yield per 1 ha increased to 4.3t (actual) and exceeded the planned amount of 4t (dry season). According to a beneficiary survey, the proportion of respondents who said they had absolutely no water during the dry season also declined substantially from about 50% (before project) to 1.5% (after project), with half responding they had sufficient amount of water. Meanwhile, an average of 25% (rainy season) and 31% (dry season) of the farmers increased their cultivated area for rice. With rice production now possible during the dry season, many of the farmers reported increases in annual farm incomes.

However, the actual irrigated and planted area was only 18% of the planned amount, or 1,440 ha, and therefore, the effects were limited. The Economic Internal Rate of Return (EIRR) was also low as 0.25%. The large reduction in planted area was due primarily to the conversion of the target area for housing and other purposes. Other reasons included facility malfunctions, lack of farmers' capital, and absence of landowners. The NIA has formulated an improvement plan to expand the planted area, and has begun repairs of malfunctioning facilities.

Therefore, the project has achieved its objectives at a limited level, and its effectiveness is low.



Lateral canal and irrigation field

Relevance

Both at the time of appraisal and at the time of the ex-post evaluation, the Medium-Term Philippine Development Plans identified increasing rice production through irrigation facility improvements as an objective. However, at the time of appraisal, Butuan City had a Land Use Plan which envisaged converting one-fourth of the project area into residential and industrial areas. At the time of evaluation, urbanization had progressed and more of the farmland had converted into residential areas, etc. There were some inconsistencies between the project and the land development plan for the project area. Therefore, the relevance of the project is fair.

* This project was jointly evaluated with the National Economic and Development Agency (NEDA) of the Philippines Government.

Rating

Effectiveness, Impact	c	Overall Rating D
Relevance	b	
Efficiency	c	
Sustainability	c	

Rice Yield (per 1 ha)

Area	Change	Rainy Season Average				Dry Season Average			
		% of Respondents	Before Project (kg)	After Project (kg)	After/Before(%)	% of Respondents	Before Project (kg)	After Project (kg)	After/Before(%)
West	Increase	82	3,556	4,452	125%	68	1,585	3,657	231%
	Decrease	15	3,814	2,993	78%	19	2,380	1,220	51%
	No Change	3	4,430		-	13	3,909		-
East	Increase	76	3,821	4,843	127%	89	1,491	4,392	295%
	Decrease	15	2,011	1,950	97%	0	-	-	-
	No Change	9	3,124		-	11	2,410		-

[Source] Beneficiary survey

Efficiency

Project cost slightly exceeded the plan (107% of plan), while project period significantly exceeded the plan (160% of plan). Efficiency is therefore low. Major factors behind the project extension included delays in land acquisition, inclement weather, and changes in the design of irrigation canals, etc.

Sustainability

There were no problems with either NIA's organizational structure or its technical capacity. However, the maintenance capacity of the Irrigation Associations (IAs) which maintain the terminal facilities is low, and the turnover of maintenance responsibilities for the laterals to the IAs has not progressed. In addition, the cost of power for pumping irrigation is high and water use revenue is limited due to reductions in the irrigated and planted area. Thus, NIA relies heavily on government subsidy (roughly 70%) and significant challenges face the financial sustainability of the project. Therefore, the sustainability of the project's effects is low.

Key Point of Evaluation: Formulation of Action Plan through Joint Evaluation

This ex-post evaluation was jointly undertaken with the National Economic and Development Authority (NEDA) of the Philippines. NEDA is the social and economic development planning and policy coordinating body, and for the joint evaluation, was responsible for the evaluation of the project's relevance and efficiency. It contributed to information collection and analyses, and in extracting recommendations and lessons learned, it gave proactive feedback to the executing agency (NIA) based on the country's situation. In addition, while this project was faced with sustainability issues, the NIA has made efforts to make improvements as well. Specifically, with the cooperation of local engineers involved in this evaluation, the NIA first reviewed the situation and issues faced by each district, and explored measures for the areas needing facility repairs. It also re-established the target irrigated area. Thus, it formulated an action plan including a financial sustainability achievement plan, and aims to conduct project follow-up and ensure sustainability.



Discussing evaluation results with NIA and NEDA



Conclusion, Lessons Learned and Recommendations

In light of the above, this project is evaluated to be unsatisfactory.

The effect and impact of the project was significantly reduced due to the conversion of the irrigation project area into areas for other purposes. As a lesson learned, the project area should be critically reviewed and determined with the participation of the recipient local governments, referring to their land use development plans, etc. Regarding the planted area, a realistic plan should be formulated and appraised in light of external risks. With regard to maintenance, the financial sustainability of the executing agency and its dependence on government subsidy should be considered. In particular, the impact of the high power cost for pump irrigation on maintenance needs to

be taken into account.

Also, in order to ensure the commitment of beneficiary residents and design projects which reflect the local situation, local governments and beneficiary residents should be actively involved from the design stages of projects through pre-project discussions, etc.

Recommendations to the executing agency include conducting facility repairs in accordance with the irrigation improvement plan, and implementing training sessions to increase the capacity of the IAs. It is also advised that the NIA coordinates with financial institutions and the Department of Agriculture to facilitate loan provisions and agriculture extension services to farmers.

* All ex-post evaluation reports including this are available on the JICA website: <http://www.jica.go.jp/english/operations/evaluation/index.html>

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Integrated Reforestation Project

Middle East
Tunisia

Contributing to improve natural environment through an “integrated approach” combining reforestation and regional development activities

External Evaluator: Akemi Serizawa, Sanshu Engineering Consultant

Outline of the Project

- Loan amount / Disbursed amount: 4,080 million yen / 3,999 million yen
- Loan agreement: March 2000
- Terms and conditions: 0.75% interest rate; 40-year repayment period (including a 10-year grace period); bilateral tied
- Final disbursement date: July 2007
- Executing agency: Directorate General of Forestry (DGF), Ministry of Agriculture and Hydraulic Resources

Project Objectives

Overall Goal: To contribute to improvement of Tunisia's natural environment



Project Purpose: To prevent soil erosion, increase forest area, and improve living conditions of the target communities



Output: Implementation of reforestation and regional development activities in four regions of northwestern Tunisia



Forests rehabilitated by the project (Béja)



Forest road constructed by the project

Effects of Project Implementation (Effectiveness, Impact)

In Tunisia, the national forest area decreased by approximately 70% from the early 20th century to the mid-1950s due to over logging during the period of colonization, among other reasons. While the forest area had recovered through reforestation, further efforts have been urged in order to prevent soil erosion and conserve the natural environment.

Under this project, 5,915 ha of land were reforested, surpassing the planned 3,300 ha. This contributed to increasing Tunisia's national forest area (959,000 ha/2000 to 1,304,000 ha/2009) as well as national forest coverage (9.2%/2000 to 13.0%/2009). Furthermore, it is estimated that the project prevented 57,000 m³ of soil erosion per year on the 5,566 ha of land where water and soil conservation facilities were built. In addition, the regional development component is confirmed to have reduced the extent of human pressure on forest resources (see “Key Point of Evaluation” on p.43). The executing agency's data also indicate a decline in illegal logging in the project area. This project has largely achieved its objectives, therefore its effectiveness is high.

Relevance

The First and Second Forestry Strategy of Tunisia identified increase of forest area and socioeconomic development of the forest zones as their objectives. Furthermore, at the time of appraisal, the country had not achieved the objective set forth in its National Plan of Reforestation, Anti-Desertification and Soil Conservation to increase national forest cover to 15% by 2000, and further efforts were urged to increase forest area. This project is also consistent with Japan's ODA policy at the time of appraisal, which identified rural development as a priority area. Therefore, its relevance is high.

Efficiency

Although the project cost was lower than planned (93% of plan), the project period was slightly longer than planned (104% of plan); therefore, the efficiency of the project is fair.

Rating

Effectiveness, Impact	a	Overall Rating A
Relevance	a	
Efficiency	b	
Sustainability	a	

Contribution of the Project to Tunisia’s National Plan of Reforestation, Anti-Desertification and Soil Conservation

	Target of the national plan by 2000	Original target of this project (by Dec 2005)		Achievement of this project (July 2007)	
			Share		Share
1) Soil conservation	3,000,000 ha	5,805 ha	0.19%	6,306 ha	0.21%
Soil conservation work	—	5,150 ha	—	5,566 ha	—
Plantation of semi-forests (sylvo-pastoral)	—	655 ha	—	740 ha	—
2) Forest coverage (15% by 2000)	Additional 635,000 ha	3,300 ha	0.52%	5,915 ha	0.93%
Plantation	—	1,300 ha	—	3,359 ha	—
Plantation on Wadi banks	—	550 ha	—	807 ha	—
Plantation around dams	—	1,450 ha	—	1,749 ha	—

[Source] Appraisal document, project completion report

Sustainability

The DGF of the Ministry of Agriculture and Hydraulic Resources and the Forestry Departments of the Regional Commissaries for Agriculture Development (CRDA) conduct the operation and maintenance of this project. A follow-on ODA loan project and other similar projects are managed under the same structure. That the forests and infrastructure rehabilitated or constructed by this project are well maintained, speak to the fact that the technical capacity and the operation and maintenance budget of the DGF and CRDAs are appropriate. The sustainability of this project’s effects is therefore high.

Key Point of Evaluation: An “Integrated Approach” towards Sustainable Forest Management and Improved Livelihood of Residents

In Tunisia, dry climate as well as the excessive exploitation of forest resources (e.g., plants, firewood) by the relatively poor populations living in the forest zones has been one of the causes of deforestation. Since the 1990s, the “integrated approach” of conducting reforestation activities and socioeconomic development activities simultaneously, has been standardized in the country. The approach was introduced with World Bank assistance after the 1990s, with a view to diversifying the source of income of residents through the socioeconomic development of forest zones and to reduce the pressure on the natural environment. This project, too, has supported the establishment of 13 Agriculture Development Groups and created Community Development Plans through a participatory process involving the residents. The plans included small projects which reflected the needs of the residents, and some were implemented under the socioeconomic development component of this project.

According to a beneficiary survey administered in the two governorates of Béja and Le Kef (respondents: 80 residents and 22 CRDA personnel), some responded that while there are residents who continue to illegally exploit forest resources for sales purposes, illegal logging in the project area has decreased because of this project. This was due to the diversification of income source, the introduction of energy saving cooking stoves, and improvements in legal compliance and environmental awareness. All residents responded that their living conditions improved. Specifically, roughly 80% noted increases in incomes through livestock breeding, beekeeping, vegetable farming and fruit growing, among other activities, with another 80% noting improvement of access due to development of forest roads. All residents who started income generation activities (90%) indicated in the survey that they still continue the activities. Thus, it is clear this project contributed to improving the living conditions of the residents in the project area.



Observation tower constructed by the project

Conclusion, Lessons Learned and Recommendations

In light of the above, this project is evaluated to be highly satisfactory.

The socioeconomic development components of this project included activities that were beyond the mandate of the DGF and the forestry departments of the CRDAs. Therefore, it was necessary to coordinate with other sections of the Ministry of Agriculture and CRDAs, as well as other governmental and local authorities and aid agencies. In projects such as this which adopt an “integrated approach”, some activities may extend

beyond the functions of the executing agency. Therefore, awareness and arrangements need to be developed within the executing agency for coordinating with other organizations.

In addition, in order to pass down the know-how of community activities and maintain the motivation of facilitators, the executing agency is advised to regularize the position of facilitators by the national budget if possible, who will be tasked with organizing forest users and promoting their socioeconomic livelihood.

* All ex-post evaluation reports including this are available on the JICA website: <http://www.jica.go.jp/english/operations/evaluation/index.html>

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Establishment of Extension System for Artisan Fisheries in Morocco

Middle East
Morocco

Contributing to conservation of fishery resources through a new extension system

External Evaluator: Hajime Onishi, Mitsubishi UFJ Research & Consulting

Outline of the Project

- Total cost (Japanese side): 597.48 million yen
- Period of cooperation: June 2001 to May 2006
- Partner country's implementing organization: Ministry of Fisheries (Ministère de l'Agriculture et de la Pêche Maritime, MPM)
- The number of experts dispatched: 8 experts (long-term); 11 experts (short-term)
- The number of technical training participants: 15 participants
- Main equipment provided: Extension activities-related equipment, Audio & Visual aids, etc.

Project Objectives

Overall Goal: To improve the socio-economic conditions of artisanal fisherpersons along with conservation of marine resources



Project Purpose: To develop and establish efficient extension system in fishing villages



Outputs:

- Practices and situation of artisanal fisheries are understood
- Extension programs on relevant themes for fisherpersons are developed
- Curriculum and teaching materials are developed and technical capacity of Extension Coordinators (V/Cs) is improved
- Extension activities are carried out effectively on selected sites
- Monitoring, evaluation and feedback mechanism is established

Effects of Project Implementation (Effectiveness, Impact)

At the time of project planning, the Government of Morocco identified that the correction of income disparity among regions and the conservation of fishery resources were priority policy issues, and intended to promote the development of fishery-related skills of approximately 48,000 artisanal fisherpersons. However, no specific or systemic extension project had been started.

In this project, nearly all the planned outputs for the development and establishment of the extension system were achieved. Specifically, the confirmed outputs included: (1) the selection of extension themes for which fisherpersons had strong needs through a precise baseline survey; (2) the creation and use of the curriculum, teaching materials for the training of the Extension Coordinators (V/Cs) and fisherpersons, and visual aids for the mobile class on each theme; and (3) the increase in number of mobile classes held (2001: 76 times, 2004: 187 times, 2005: 299 times, 2006: 224 times). Each output greatly contributed to the development of the extension system. In addition, a budget dedicated to the National Fisheries Extension Center (CNVM) was appropriated starting from 2006, and financial support was available for the realization of extension activities. While the project had no significant impact on the incomes of fisherpersons, the establishment of fishery cooperatives contributed to improving the business environment and the project generated many positive impacts, including the achievement of the overall goal (see table on p.45). This project has thus largely achieved its objectives; therefore, its effectiveness is high.



Artisanal fisherpersons and Extension Coordinator

Relevance

Both at the time of planning and at the time of project completion, the project was highly consistent with the national development plan of Morocco as well as the development strategies for the fisheries sector, which set out education of artisanal fisherpersons. The project is also highly consistent with Japan's ODA policy for Morocco. Furthermore, the need for improvement of artisanal fisherpersons' fishing-related skills through extension activities was still significant. Therefore relevance of this project is high.

Efficiency

The amount of inputs of the Japanese side was close to the plan. The Moroccan side contributed a larger number of Extension Coordinators (V/Cs) and extension workers (Vs) than initially planned, and greatly contributed to the achievement of the project objective. Additionally, there was no problem with the project cost and period of cooperation. The inputs were appropriate, therefore, efficiency of the project is high.

Rating

Effectiveness, Impact	a	Overall Rating A
Relevance	a	
Efficiency	a	
Sustainability	b	

Acquisition of Knowledge by Artisanal Fisherpersons

Views of Artisanal Fisherpersons on the Effects of Extension Programs on Fishing Activities

Responses	No. of Respondents	%
Extension programs have contributed to our fishing activities	75	68.2
Extension programs have not contributed to our fishing activities	4	3.6
No answers / No opinions	31	28.2
Total	110	100.0

Detailed Contribution to Fishing Activities

(Question to those who answered some contributions in the table above)

Responses	No. of Respondents	%
Learning of maintenance skills of outboard engines	67	89.3
Understanding of importance of maritime safety	64	85.3
Better understanding of fishing techniques and management	62	82.7
Better knowledge of hygiene	42	56.0
Learning of GPS usage	30	40.0

* Note: Multiple answers

Implication of Cooperative Activities on Artisanal Fisherpersons

Views of Artisanal Fisherpersons on the Impact by the Establishment of Cooperatives

Responses	No. of Respondents	%
The establishment of cooperatives has affected the fishing activities	83	75.5
The establishment of cooperatives has not affected the fishing activities	4	3.6
No answers / No opinions	23	20.9
Total	110	100.0

Detailed Impacts by the Establishment of Cooperatives

(Question to those who answered some impacts in the above table)

Responses	No. of Respondents	%
Being able to receive more financial support than before	32	38.6
Being able to receive more technical support (incl. maintenance support) than before	23	27.7
Being able to use more equipment (boat, outboard engines, fishing instruments, etc.) than before	31	37.3
Being able to share fishing knowledge and techniques	37	44.6
Being able to sell the fish more expensive than before	14	16.9

* Note: Multiple answers

[Source] Results of beneficiary survey

Sustainability

Although there are some issues regarding the recruitment of personnel to replace V/Cs and additional training for newcomers, a certain number of extension activities are confirmed to have been carried out from the time of project completion to date. Also, no major problems are observed with the operation and maintenance arrangements of the implementing organization. Regarding financial aspects, further budgetary measures are necessary, and therefore, slight concern remains over sustainability. Therefore, the sustainability of the project is fair.

Key Point of Evaluation: Importance of Understanding Local Needs

From the interviews of the V/Cs and Vs of this project and the results of the beneficiary survey, it was concluded that the extension themes selected for this project, such as cooperatives formulation and maritime safety, were in line with the needs of the local community. By selecting themes which coincide with community needs, community interest in extension activities increased. The high level of satisfaction towards the extension activities was also apparent from the survey results. In addition, there was a high degree of understanding about the extension activities. Thus, the implementation of extension activities on themes that match the needs contributes to increasing not only satisfaction, but also interest and degree of understanding.

There was a strong understanding of the local needs because a baseline survey was conducted not only at the start of the project, but also at the mid-term phase. Furthermore, the content of the survey and the process were relevant, and the survey results were utilized in selecting the themes. Ultimately, this contributed to the project's success.



Larache National Extension Center

Conclusion, Lessons Learned and Recommendations

In light of the above, this project is evaluated to be highly satisfactory.

In this project, the high quality of the baseline survey (the accuracy in understanding the needs of the beneficiaries) contributed to the selection of extension themes, and was one of the factors that led to the success of this project. When formulating and implementing similar projects containing extension activities in the future, it is advisable to allocate enough time for the baseline survey to understand the needs of the beneficiaries, and to confirm the accuracy of the baseline survey in the mid-term evaluation. If any problem is found, an additional survey should be conducted. Furthermore, in this project, the preliminary survey on the activities of female artisanal fisherpersons was not enough, and as a result, it was

extremely difficult to carry out activities targeting women. When implementing similar projects in Muslim regions, in particular, it is essential to precisely understand the cultural and social background of the recipient country.

As for recommendations, the executing agency is advised to explore the following, among others: (1) reducing the number of extension target sites aimed at carrying out extension activities by utilizing the existing resources more efficiently and effectively; (2) paying an allowance to V/Cs and Vs in order to maintain their motivation; and (3) so that artisanal fisherpersons can enjoy the tax exemption on fuel, expediting the tax exemption application process or swiftly coordinating with customs with a view to facilitating the introduction of tax exemption.

* All ex-post evaluation reports including this are available on the JICA website: <http://www.jica.go.jp/english/operations/evaluation/index.html>

The project for Improvement of Josina Machel Hospital

Africa
Angola

Contributing to the improvement in health services as part of post-war reconstruction assistance

External Evaluator: Yasuhiro Hiruma, International Techno Center Co., Ltd.

Outline of the Project

- Grant limit / Actual grant amount:
 - (I) 1,136 million yen / 1,095.3 million yen
 - (II) 2,847 million yen / 2,803.99 million yen
- Exchange of notes date:
 - (I) July 2002; (II) May 2003
- Project completion date: August 2005
- Implementing agency: Ministry of Health

Project Objectives

Overall Goal: To improve the quantity and quality of health services throughout Angola

↑

Project Purpose: To restore its role as the top referral hospital

↑

Output: The reconstruction/repair of Josina Machel Hospital in Luanda Province, the largest national general hospital in Angola, and improvement of medical equipment



Josina Machel Hospital



Effects of Project Implementation (Effectiveness, Impact)

In Angola, an unstable situation continued for over 20 years due to the civil war which lasted until 2002. The health sector, was in disarray as well. The lack of proper maintenance resulted in the dilapidation of health facilities and equipment. Medical supplies were in short supply, and the referral system of health facilities were barely functioning.

The situation was as serious for the Josina Machel Hospital, identified as one of the central health facilities in Angola. However, through this project, health facilities and equipment were built or repaired, and both the quantity and quality of health services improved. The creation of a consultation room for each clinical department reduced the waiting time of patients. The renewal of examination, diagnosis and other equipment, as well as improvements in patient flows in the hospital, have realized higher quality and efficient examinations and treatment, and promoted the use of the hospital. As a result, in 2010, the number of beds in the wards increased by 34%, the number of laboratory tests increased by 378%, and the number of surgical operations increased by 59% compared with 2002. In addition, the implementation of technical training as part of the Soft Component has made the hospital staff more aware of equipment maintenance and management. Thus, this project has achieved its objectives; therefore, its effectiveness is high.

Relevance

Improvement of the core hospitals was considered the highest priority issue in the Five-Year Health Development Plan (2000 - 2004) of the Government of Angola, and improvement of the core hospitals was also given priority in current health policies. Japan and Angola have agreed on cooperation in the health sector as part of reconstruction assistance; therefore, the relevance of this project is high.

Efficiency

Under this project, facilities were newly built or repaired, including the hospital's outpatient and laboratory departments, and medical equipment were procured, including equipment for the operating room and X-ray. While the project cost was lower than planned (97%), the project period extended by one month due to delays in customs clearance of imported materials, shutdown of cement plant operations, among other reasons. Therefore, the efficiency of the project is fair.

Rating		
Effectiveness, Impact	a	Overall Rating B
Relevance	a	
Efficiency	b	
Sustainability	b	

Major Operation Indicator

Indicator	Baseline (At the planning stage: 2002)	Actual (2010)
(1) Number of beds in the wards	400	534
(2) Bed occupancy rate	79.1%	86.7%
(3) Number of referred patients	2,854	6,990 (2007 actual figure)
(4) Number of laboratory tests	41,637	157,527
(5) Number of surgical operations	10,341	16,448

[Source] Implementing agency



Outpatients



Eye examination equipment provided by the project

Sustainability

At the time of evaluation, no major problems are observed with the maintenance of the facilities and equipment, and the sustainability of the project is high. However, there are concerns over the future sustainability of the outsourced maintenance system. In addition, since only limited types of spare parts are available in the domestic market, it will be necessary for the government to take the lead in efforts to explore new procurement routes. Meanwhile, the outcomes of the technical training provided to staff under the Soft Component may not be come out in the short term. Therefore, continuous implementation of similar training by the hospital is required. Thus, the maintenance system and technology component of this project have minor problems. Therefore, the sustainability of the project's effects is fair.

Key Point of Evaluation: Project Also Contributes to Development of Health Workers

This project was the first full-fledged reconstruction assistance project which Japan conducted after the end of the civil war in 2002 in Angola, where the civil war since 1975 took a heavy toll on the country's socio-economic systems. In 1996 a grant aid was provided to repair the facilities of the Josina Machel Hospital, and this project was a more extensive follow-on project of the grant aid. Specifically, the objective was to restore the functions of the hospital and develop a central health facility by conducting a full-scale renovation and repair of the hospital and procuring equipment after more than 20 years in which maintenance was not properly undertaken.

From 2007, a JICA technical cooperation project, "Training for capacity building at Josina Machel Hospital", was initiated to increase the capacity of staff from the hospital and health centers nearby, in making further enhancements to the Soft Component of this project. Roughly 750 people were trained over three years on four courses, such as "nursing" and "hospital management". Several nurses who received training in maintenance and daily handling of medical equipment responded that they now "pay more attention to the handling of equipment than before". Such technical training for health workers not only increases the sustainability of this project, but also contributes to the "development of health workers" set forth in the Strategic Plan (2010-2011) of the Ministry of Health.

Conclusion, Lessons Learned and Recommendations

In light of the above, despite the slight problems found in efficiency and sustainability, this project as a whole is evaluated to be satisfactory.

Regarding lessons learned, it was confirmed that technical training focusing on facility and equipment maintenance (Soft Component of this project) is an effective way to ensure long-term use of equipment in countries like Angola, where there are few opportunities for technical education. When designing the Soft Component, it is necessary to consider the conditions of the country, including situations related to use, maintenance and operation of facilities and equipment, and the minimum

technical standards required for the achievement of high project effect.

Regarding recommendations, in order to strengthen the maintenance arrangements of the hospital, the implementing agency is advised to prepare equipment procurement plans in five-year and ten-year terms. Furthermore, it is recommended that the Ministry of Health and the hospital take the lead in exploring ways to procure supplies and spare parts which are not readily available in the Angolan market directly from the manufacturers or agents in neighboring countries, until the Angolan market has developed.

* All ex-post evaluation reports including this are available on the JICA website: <http://www.jica.go.jp/english/operations/evaluation/index.html>

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Northern Main Road Construction Project

Africa
Swaziland

Contributing to the promotion of trade and economic development of northern districts through building of roads

External Evaluator: Yasuhiro Kawabata, Sanshu Engineering Consultant

Outline of the Project

- Loan amount / Disbursed amount: 4,412 million yen / 4,412 million yen
- Loan agreement: January 2001
- Terms and conditions: 2.2% interest rate; 30-year repayment period (including a 10-year grace period); general untied
[Consulting service portion: 0.75% interest rate; 40-year repayment period (including a 10-year grace period); bilateral tied]
- Final disbursement date: May 2007
- Executing agency: Ministry of Public Works and Transport (MOPWT)

Project Objectives

Overall Goal: To contribute to the economic development of Swaziland's northern districts



Project Purpose: To promote trade mainly of agricultural products with peripheral countries



Output: Pavement of roads and replacement of bridges for MR5 (Mliba – Tshaneni) and MR6 (Madlangampisi – Msahweni) among arterial roads in the Swaziland's northern region



MR5/MR6 branching point (Madlangampisi): Before the project



Same location: After the project

Effects of Project Implementation (Effectiveness, Impact)

In Swaziland, the development of its economy is limited through domestic demand expansion alone. Priority was thus given to improving its access to neighboring countries and enhancing trade. In particular, it was a challenge to improve access to the Maputo Corridor (a road connecting Pretoria, the capital of South Africa with Maputo, the capital of Mozambique), which is the largest corridor in the neighboring regions, and improvement of arterial roads in Swaziland's northern area was needed.

Compared with the base year (2000), traffic volume after the project's completion (as of 2009) increased roughly 2.7 times on MR5 and roughly 3 times on MR6. In addition, after the project's completion, travel time on both roads (traveling the entire stretch) was reduced by about one-half (see table on p.49). Furthermore, from a beneficiary survey administered in the project area, it was confirmed that the improvement of the existing road from dirt road to paved road contributed to promoting the smooth distribution of goods and improving transport capacity, which in turn is contributing to the economic development of the region (see "Key Point of Evaluation" on p.49). This project has largely achieved its objectives; therefore, its effectiveness is high.

Relevance

At the time of appraisal, Swaziland's National Development Plan identified improvement of arterial roads as one of the priority areas. At the time of evaluation, improvement of arterial roads was still given priority. This project has been highly relevant with the Swaziland's development plan and needs, as well as Japan's ODA policies; therefore, its relevance is high.

Efficiency

Both the project cost (181% of plan) and project period (158% of plan) significantly exceeded the plan; therefore, the efficiency of the project is low. The main reasons for cost increase included a significant rise in commodity prices. In addition, this project did not only conduct simple improvement and pavement work of existing roads. It was similar to

Rating

Effectiveness, Impact	a	Overall Rating B
Relevance	a	
Efficiency	c	
Sustainability	a	

Trends in Average Daily Traffic and Travel Time on MR5 and MR6

	Average Daily Traffic (unit: vehicle/day)* ¹				Travel Time (unit: minutes)* ³	
	2000 (Base year)	2002	2004* ²	2009 (2yrs after completion)	2000 (Base year)	2009 (2yrs after completion)
MR5	763	888	—	2,057	73	33
MR6	459	—	582	1,366	64	29

*1 A counting station for MR5 is near Sihoye, and that for MR6 is almost the halfway point of the project road section.

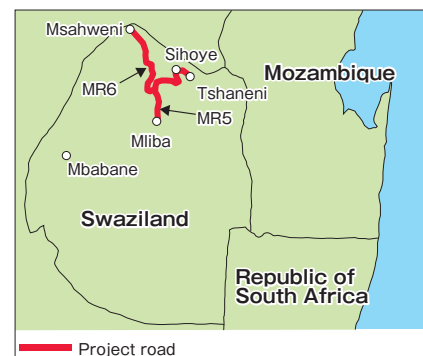
*2 Traffic counting was not implemented during the construction work period (2004 - 2007).

*3 MR5: Average running speed (passenger vehicle) between Mliiba and Tshaneni (55km) before the project was assumed at 45 km/hour, while after the project assumed at 100 km/hour.

MR6: Same criteria applies to section between Madlangampisi and Msahweni (48km).

[Source] Documents provided by MOPWT

constructing new roads (including additional land acquisition), resulting in substantial increase in construction volume. The main reasons for the project period delay included the fact that the selection of a consultant and contractors as well as the preparation of civil works bidding documents took longer than expected.



Sustainability

Operation and maintenance is conducted through assignments of appropriate staff. However, insufficient manuals were prepared for routine maintenance work, and the budget for maintenance was not necessarily sufficient. Nevertheless, the road surface of both roads is well maintained and no major problems have been observed in the operation and maintenance system and capacity; therefore, the sustainability of the project is high.

Key Point of Evaluation: Increases in Agricultural Exports

Improvements made to MR5 and MR6 which connect to the Maputo Corridor contributed to increasing agricultural exports, including exports of the main products of Swaziland's northern area - sugar and citrus, and to promoting trade with the Southern African Development Community (SADC). For instance, while sugar exports to South Africa temporarily declined, exports have once again picked up since 2008. Today, exports to South Africa make up over 50% of total exports. Citrus exports, too, have been rising. Before the project, both Mozambique's Maputo port and South Africa's Durban port were the ports for exports. However, after the project completion, more products are transported to the Maputo port through MR5, and this project's contributions are highly commended. Major destinations for export are Europe, Russia, and the Middle East countries.

According to a beneficiary survey of 166 respondents in 7 villages along MR5 and MR6, 94% responded that the travel time was shortened. Meanwhile, 67% stated that the project facilitated transport of agricultural products to major cities, and 55% said it promoted the region's economic activities. Among the respondents who live along the project's corridor, 54% indicated that upon completion of the project their household income has increased. From these results, it was confirmed that the roads rehabilitated by this project promote trade and contribute to the economic development of the country (particularly the northern districts).

Conclusion, Lessons Learned and Recommendations

In light of the above, this project is evaluated to be satisfactory.

In this project, the inaccuracy of the topographic maps, which were the basis for the detailed designs, contributed to the substantial increase in the scale of the construction. As a lesson learned, for future similar projects, before starting the detail designs, the center line of the proposed alignment should be marked on the ground, and detailed supplemental topographic surveys should be carried out along the alignment, particularly in the sections where construction volume will be greatly affected.

In addition, the capacity building (institutional strengthening)

of the executing agency was one of the project components, and training programs by foreign experts were included in the project. However, the majority of the programs were not implemented due to the staff's busy schedule with daily work. Proposals for implementing training programs more effectively should be reviewed in detail at the project preparation stage. It is recommended that for future similar projects, staff should undertake short- and mid-term training programs being offered in South Africa and the budget for training be included in the project cost.

* All ex-post evaluation reports including this are available on the JICA website: <http://www.jica.go.jp/english/operations/evaluation/index.html>

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The project for Construction of Primary Schools in Dosso and Tahoua Regions

Africa

Niger

Contributing to the improvement of the learning environment through new or enhanced classrooms and education materials

External Evaluators: Satoru Takahashi and Shimako Narahara, IMG. Inc.

Outline of the Project

- Grant limit / Actual grant amount:
 - (I) 705 million yen / 704.6 million yen
 - (II) 326 million yen / 323.41 million yen
- Exchange of notes date: (I) June 2003; (II) June 2004
- Project completion date: (I) February 2005; (II) October 2005
- Implementing agency: Ministry of Basic Education and Literacy (now the Ministry of National Education)

Project Objectives

Overall Goal: To increase access to basic education



Project Purpose: To provide 9,250 students with a comfortable learning environment



Output: In Dosso and Tahoua Region^{*1}, construction and renovation of primary schools and provision of supplies, and awareness raising activities on facility maintenance and sanitation management



Traditional thatched classroom



Classroom building constructed by the project (Konni Department, Tahoua Region)

Effects of Project Implementation (Effectiveness, Impact)

Niger is one of the poorest countries in Sub-Saharan Africa, and net enrolment rate^{*2} in primary education was 34% in 2000 and was among the lowest in the world. Disparities in basic education between regions and gender were widespread. In order to support the initiatives of the Government of Niger, which has consistently identified improvements in educational environment as a means for increasing access to basic education, this project was implemented in the Dosso and Tahoua Regions where the education environment was particularly dire.

The number of students learning at the 52 primary schools (185 classrooms) constructed or renovated by this project is estimated to be slightly lower than 80% (about 7,250 students) of the project target (9,250). Under this project, non-durable thatched classrooms or aging classrooms were renovated, or new sturdy classrooms made of concrete and other materials were constructed. According to a sample survey of 19 schools, the average number of students per sturdy classroom, including existing classrooms constructed or renovated by the Government or other aid agencies, has decreased and the learning environment has improved. Furthermore, the relocation from the narrow thatched classrooms to bigger and sturdy classrooms has improved the teachers' classes and students' learning environment. Though thatched classrooms had to be rebuilt each year, this project reduced the economic burden borne by parents and guardians for the construction of such classrooms.

Meanwhile, the number of students in the classrooms built by this project is below capacity, especially in rural areas, and the classrooms are not fully utilized (see table on p.51). In addition, the latrine buildings constructed at the same time as the classrooms are not fully utilized. The number of girls enrolled in school, too, has not increased as was assumed at the time of project planning. Also, because JICA's Technical Cooperation project, "The Project on Support to the Improvement of School Management through Community Participation (School for All)" was implemented soon after this project, it was not possible to examine its direct contribution to increasing the School Management Committee's (COGES) facility maintenance and management capacity through this project's Soft Component.

*1 When the basic design of the project was conducted, the administrative units for Dosso and Tahoua were called "Departments". In 2002, Departments were renamed "Regions" based on the government's decentralization policy.

*2 The number of children of official primary school age who are enrolled in primary education as a percentage of the total children of official school age.

Rating

Effectiveness, Impact	b	Overall Rating C
Relevance	a	
Efficiency	b	
Sustainability	b	

Location and Number of Students per Classroom in 19 Sample Schools

Location*1	Number of Schools	Number of Students per Project Classroom*2
Urban	8	44.9
Rural	11	33.5

*1 In this evaluation, "rural area" refers to an area where population is small and migration into the community hardly occurs. "Urban area" refers to an area that experiences an inflow and growth in population. Both are irrespective of the distances to cities and major roads.

*2 In this project, the target number of students per classroom was 50.

[Source] Ex-post Evaluation Study

Relevance

The Government of Niger sets out in the Ten-Year Education Development Program 2002 - 2012 (Programme Décennal de Développement de l'Éducation de Niger: PDDE) that improving and increasing enrollment in basic education is a priority issue. The need for constructing classrooms was high in the project area. Assistance to improve the learning environment was also consistent with Japan's ODA policy. Therefore, the relevance of this project is high.

Efficiency

The project cost was generally as planned (99.7% of planned cost). However, the project period was slightly longer than the plan (105% of planned period), and therefore, the efficiency of the project is fair. In addition, the lack of durability (quality and design) of the furniture was a problem at many schools (e.g., screws fall off from student desks and chairs, the plywood surface of the desks peels off).

Sustainability

The durability and quality of the facilities are high, and to date neither sophisticated technologies nor large-scale funding has been necessary for maintenance, although the need for small repairs was confirmed. However, COGES, the body responsible for the maintenance of school facilities, still lacks sufficient capacity to raise funds for operation and maintenance and utilizing those funds. Therefore, the sustainability of the project is fair.

Key Point of Evaluation: From Thatched Classrooms to Durable Classrooms

This project aimed to reduce thatched classrooms as they were vulnerable to bad weather and dust and therefore tended to have an adverse impact on students' health and ability to concentrate on their studies. The newly constructed sturdy classrooms were expected to provide favorable learning environment for students.

From the interviews of teachers and parents/guardians that were conducted for the ex-post evaluation, it was confirmed that the construction of sturdy classrooms had reduced the problems caused by thatched classrooms in a variety of ways. (1) The construction period for thatched classrooms coincides with the harvest season for straw (September - October), and construction often did not finish by the start of the new school term in October. Thus, the construction of sturdy classrooms has enabled classes of the new term to start as scheduled. (2) The growth of vegetation during the rainy season had covered up and led to the collapse of the thatched classrooms. (3) At primary schools which only used to have thatched classrooms, the construction of school buildings has made parents and guardians more conscious about school education. (4) Parents and guardians have increased motivation to enroll and keep their children in school. (5) Both teachers and students are able to concentrate more on the class work. Many of the interviewed noted that the annual fees and offer of service for thatched classroom construction were eliminated or reduced.



Classroom constructed by the project (Birni Quartier primary school, Dosso Region)

Conclusion, Lessons Learned and Recommendations

In light of the above, the overall rating of the project is fairly satisfactory.

While this project contributed to improving the learning environment, urban schools continue to face a shortage of classrooms. On the other hand, the number of students is low in rural areas and the newly constructed classrooms have not been utilized. It is thus advised that school construction projects adopt a construction plan that further takes into account the population dynamics of the target community. With regards to student desks and chairs, a lesson learned is to consider their durability in selecting materials and working out an appropriate

design.

At the time of planning, this project assumed that the establishment of latrine buildings would promote the enrollment of girl students. However, their construction alone is unlikely to promote girls' enrollment, and careful thought needs to be given for future similar projects.

As for recommendations, it is advised that the implementing agency appropriately stores basic data related to school management (e.g., number of students, number of students who passed the final exam).

* All ex-post evaluation reports including this are available on the JICA website: <http://www.jica.go.jp/english/operations/evaluation/index.html>

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The Project on Aquaculture Research and Technical Development of Malawian Indigenous Species

Africa
Malawi

Contributing to productivity improvements through development of fish-farming techniques

External Evaluator: Hajime Onishi, Mitsubishi UFJ Research & Consulting

Outline of the Project

- Total cost (Japanese side): 892.54 million yen
- Period of cooperation: April 1999 to May 2006 (of which May 2004 to May 2006 is extended period)
- Implementing agencies: Department of Fisheries, Ministry of Natural Resources and Environmental Affairs (currently under the Ministry of Agriculture)
- The number of experts dispatched: 14 experts (long-term); 13 experts (short-term)
- The number of technical training participants: 22 participants
- Main equipment provided: Equipment for seed production facilities, vehicle, equipment for on-farm research, etc.

Project Objectives

Overall Goal: To establish appropriate fish-farming techniques in Malawi



Project Purpose:

1. To establish four seed production techniques for new aquaculture species (Mpsa, Ntchila, Nin-gui, and Thamba)
2. To establish appropriate fish-farming techniques for existing species (Tilapia and Clariid catfish)



Outputs:

- 1.1 Reproductive ecology and spawning habits of new species are clarified
- 1.2 Brood stock rearing techniques of new species are established
- 1.3 Induced spawning and larvae rearing techniques for new species are established
- 2.1 Appropriate species and farming methods for variable physical, technical and socio-economic conditions are clarified
- 2.2 Constant seed production of the Clariid catfish is achieved
- 2.3 Techniques developed at the National Aquaculture Center (NAC) are verified at selected fish farms
- 2.4 Farmer's willingness and interest in fish-farming is promoted
3. Mechanism to continue activities initiated by the project is established

Effects of Project Implementation (Effectiveness, Impact)

Malawi, a landlocked country, has thriving inland fisheries, and Malawians get some 70% of their animal protein from aquatic resources. However, as a result of overfishing and drought, etc., fish catches in large lakes have declined, and ensuring new sources of nourishment by improving Malawi's production efficiency in freshwater fish-farming was a pressing issue.

Through this project, seed production techniques were established for two new aquaculture species. However, because more affordable production techniques which would have enabled their widespread use were not established, Project Purpose 1 was only partially achieved. Regarding Project Purpose 2, an increase in cultured fish production at selected fish farms was confirmed. In addition, during the extension period, in tandem with the dissemination of fish-farming techniques, technique development tests and on-farm research were continued at selected fish farms. "Raising farmer motivation" is the best proof that appropriate seed production techniques have been developed, and it can be said this objective was achieved. With regards to the achievement of the overall goal, no meaningful data were obtained, and it is difficult to judge whether the goal was achieved or not. Nevertheless, many positive impacts were confirmed through the beneficiary survey and interviews of local stakeholders (see table on p.53). The project has somewhat achieved its objectives; therefore, its effectiveness is fair.



Female group members (former select fish farmers)

Relevance

The fishery sector strategies of Malawi identify "promotion of investment in aquaculture in rural areas" and "development of new fisheries resources" as their priority issues. This project is thus consistent with the development policies of Malawi. In addition, the sharp reduction in fishery resources with high food value was acknowledged as a grave issue, and R&D needs exist to search for new sources of nourishment through the development of fish-farming. Therefore, the relevance of this project is high.

Rating

Effectiveness, Impact	b	Overall Rating C
Relevance	a	
Efficiency	b	
Sustainability	b	

Qualitative Impact

Changes in the image of fish-farming	Contribution to the dawning of commercial fish-farming
As a result of the massive expansion of various NAC facilities, expectations rose for fish-farming among farmers in its vicinity. Particularly, it is believed that "the desire of small-holder farmers to participate in fish-farming was greatly motivated." Many people said their image of fish-farming changed dramatically from "fish-keeping" (merely keeping fish in ponds) to "fish production" (raising fingerlings to adult fish).	In Malawi, commercial fish-farming fully got underway in the second half of 2004 when Maldeco started a fish-farming business. Maldeco received supplies of fingerlings from the NAC for the first two years.
Improved livelihood for small-holder farmers	Collaboration with and contribution to the FAO project
Many people feel that, for small-scale farms that relied on growing maize and other subsistence farming, the "acquisition of new fish-farming techniques and the adoption of fish-farming have contributed tremendously to improving the livelihood of these farmers".	On the premise that it would be able to use the research output of the project related to the fish-farming techniques used for cultivating the Clariid catfish, the FAO implemented a new project. In 2009, some 250,000 Clariid catfish seedlings were produced.
	Indirect contribution to NGO activities
	In the vicinity of the NAC, NGOs from various countries are engaged in a host of assistance activities involving community development. The introduction of fish-farming is being tried as part of these activities. The NAC provides basic support to these NGOs by offering them fingerlings.

[Source] Interview of local stakeholders

Efficiency

The amount of inputs made by Japan was very close to plan. Although the cooperation cost was relevant, the cooperation period was extended by two years. While the period was extended to make sure the outputs were disseminated, the "dissemination of fish-farming techniques among selected farmers", which was given as the reason for the delay, was included in the initial action scope. Furthermore, some outputs were expected before the extension was made. In light of these facts, the efficient implementation of the project was met with some obstacles; therefore, efficiency is fair.

Sustainability

In light of the policies of the current government that emphasizes the fisheries sector, the budgets of the implementing agency and the NAC have increased substantially and the project's financial sustainability is expected to improve dramatically. Although on the technology front, no major problem has risen as of now, on the system front, the dissemination of fish-farming techniques has had problems regarding the division of roles between the NAC and the local authority (DFO) and resource shortages. Thus, systematic activities are not undertaken. Therefore, the sustainability is fair.

Key Point of Evaluation: Practical Technology Dissemination to Villages

This project also disseminated fish-farming techniques to villages and has achieved successful outcomes. From the results of the beneficiary survey, it was concluded that these activities contributed to increasing target farmers' interest and to increasing their participation in fish-farming. Through this evaluation, it is clear that this project also dramatically changed farmers' image of fish-farming. Farmers said before the project was implemented, the image they had of fish-farming was akin to "fish-keeping" (merely keeping fish in ponds), and to achieve the overall goal, their image of fish-farming had to change. After implementation, their image changed to "fish production" (raising fingerlings to adult fish). Even four years after the project's completion, many farmers interviewed for the beneficiary survey said they "learned the basics of fish-farming through this project".

Although the overall goal of this project was establishment of techniques, this evaluation confirmed that the project had an impact on transforming farmers' attitudes.



Aquaculture pond in Chingali

Conclusion, Lessons Learned and Recommendations Villages

In light of the above, this project is evaluated to be fairly satisfactory.

Regarding the important outputs of this project, their prompt dissemination to areas also outside of the project area is recommended. To this end, relevant stakeholders, including local governments, agricultural improvement disseminators, and the NAC, should work together to begin carrying out their dissemination activities in a systematic manner.

The two target groups of this project were initially: "small-

holder fish farms" and "partly commercial fish farms". In 2004, however, in response to the change in policy of the Malawian Government, "partly commercial fish farms" were removed. This decision significantly influences the direction of the project. Therefore, at the time this decision was made, "partly commercial fish farms" should have been eliminated from the PDM target in a timely manner, and the revised objectives and activities should have been fully notified to those concerned, including the Malawian counterparts.

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Social Sector Development Project in the Sierra Area II (FONCODES II)

Latin America

Peru

Local residents participate in development of basic infrastructure

External Evaluator: Takeshi Yoshida, Global Group 21 Japan, Inc..

Outline of the Project

- Loan amount / Disbursed amount: 6,794 million yen / 6,758 million yen
- Loan agreement: September 2000
- Terms and conditions: 2.2% interest rate; 25-year repayment period (including a 7-year grace period); general untied
[Consulting service portion: 0.75% interest rate; 40-year repayment period (including a 10-year grace period); bilateral tied]
- Final disbursement date: July 2007
- Executing agency: Social Development and Cooperation Fund (FONCODES)

Project Objectives

Overall Goal: To improve the standard of living in the Sierra area and contribute to reducing poverty



Project Purpose: To meet the basic human needs (BHNs) of local residents



Output: Implementation of small-scale socioeconomic infrastructure subprojects (e.g., school buildings, health post, community centre) in a participatory manner in four regions in the Sierra area



Newly built elementary school classroom



Irrigation channel constructed by this project

Effects of Project Implementation (Effectiveness, Impact)

In the Sierra area covering some 30% of Peru, two-thirds of the households were classified as “poor”, half of which were classified as “extremely poor” (as of 1995). The project area is the poorest, and the development of basic infrastructure was urgently required to improve the livelihood and production activities of the residents. Under this project, 1,726 sub-projects were implemented, including the construction or rehabilitation of school buildings and health posts, improvement of irrigation channels, roads and bridges, electrification, water supply, and establishment of latrines. A total of 1,634,000 people are believed to have benefited from the projects.

The sub-projects are used effectively, and have had some positive effects regarding the expansion and qualitative improvement of the basic infrastructure and/or services in the Sierra. The level of satisfaction of the beneficiaries is very high, with a combined 72% to 99% of respondents either “very satisfied” or “satisfied”. Furthermore, following the completion of the irrigation sub-projects, the agricultural income of the residents has clearly increased. It is thus shown that certain impacts leading to improvement of the standard of living did manifest, reflecting the positive utilization of each sub-project. Based on the above, this project has largely achieved its objectives; therefore, its effectiveness is high.

Relevance

The second Fujimori administration (1996 - 2000) set out poverty reduction as a priority policy issue, and the FONCODES was the leading organization to achieve this policy initiative. The same administration has encouraged agriculture and the handicrafts industry in the Sierra area as part of its drive to eliminate poverty. The project was also in line with Japan's ODA policy; therefore, its relevance is high.

Efficiency

The project originally intended to implement 1,987 sub-projects in six sectors in four regions but in actuality implemented 1,726 sub-projects in nine sectors in nine regions. This was the result of selecting sub-projects which also contribute to the rehabilitation of areas devastated by an earthquake to the extent that project cost will be lower than planned. Meanwhile, the project period was extended due to insufficient counterpart funding by the Government of Peru to cover the domestic portion. Therefore, the efficiency of the project is fair.

レーティング

Effectiveness, Impact	a	総合評価 A
Relevance	a	
Efficiency	b	
Sustainability	a	

Impacts of Sub-projects (Sample Responses from Beneficiary Survey)

School Building	<ul style="list-style-type: none"> The improvement of the educational environment has enhanced the appetite of pupils for learning. More than 90% of the beneficiaries (parents) believe that the learning performance of their children has improved. 	Rural Electrification	<ul style="list-style-type: none"> The supply of electricity has been found to be very useful for learning by children (41%) and entertainment (33%). 90% of the respondents said that electricity has been useful in their daily lives. Primarily, it has been found to be useful for learning by children (41%) and entertainment (33%). Though small in number, new businesses have started, including commercial, sewing and flour milling businesses.
Health Post	<ul style="list-style-type: none"> The medical service has improved, especially for pregnant women, mothers and children. For example, the frequency of illness declined (58%) and medical examination and diagnosis improved (22%). 40% of the beneficiaries responded that the medical service has improved, but some expressed dissatisfaction with the lack of a fulltime doctor. 	Water Supply	<ul style="list-style-type: none"> 75% of the respondents said that the heavy labor of fetching water has been reduced, allowing them to use their time more effectively. Half of the respondents said that the use of more water for hygiene purposes, including hand/face washing and house cleaning, has reduced the occurrence of infectious diseases. 95% said the tapped water supply has improved their daily lives.
Irrigation Channel	<ul style="list-style-type: none"> Productivity improved. Together with an increase of the market demand, the improved irrigation has expanded the cultivation of cash crops. As a result, income has increased for some 70% of the beneficiaries. 	Latrines	<ul style="list-style-type: none"> The clean toilets have reduced the bad odor. 35% of the respondents said that the use of the latrines has reduced the occurrence of diarrhea. All of the respondents said that the introduction of latrines has improved their daily lives.
Road/Bridge	<ul style="list-style-type: none"> Convenience increased, in terms of the sale of products to the market and for the movement of livestock. Commercial activities using vehicles have become possible. 93% of the respondents said that the convenience of daily life increased. 27% said that they have had an economic benefit in terms of sales at the market. 		

[Source] Prepared by the evaluator based on the findings of the beneficiary survey

Sustainability

After completion of all sub-projects, the FONCODES handed over the sub-projects to the body responsible for maintenance, including ministries and agencies and municipalities. Except for the health post and electrification, the beneficiaries also conduct some of the maintenance work. While the maintenance system differs depending on the mode of participation of the management body and residents (beneficiaries), the sub-projects were well-managed overall excluding some water supply facilities. Therefore, the sustainability of the project is high.

Key Point of Evaluation: Prompt Response for Earthquake Rehabilitation

In June 2001, a large, magnitude 8.4 earthquake struck off the coast of southern Peru, killing more than 100 people and destroying over 40,000 buildings. In order to assist with the post-disaster rehabilitation, the initial plan was modified and a decision was made to add five regions which sustained particularly heavy damages to the project area (Arequipa, Moquegua, Tacna, Ayacucho, and Apurimac). A total of 151 sub-projects were implemented, predominantly involving the rehabilitation of school or health post buildings damaged by the earthquake, as well as rehabilitation of a small number of irrigation channels.

In the Arequipa region, the beneficiary survey confirmed the following effects based on the opinions obtained. One person noted, "A part of the school building constructed by adobe collapsed because of the earthquake. At first we continued to hold classes in the remaining part of the school building, but having classes was very difficult as there were not enough classrooms. The new classrooms are safe, well-lighted and students can comfortably concentrate on their studies." (Wambo primary school) Another responded, "The wall of the building collapsed because of the earthquake, and the health post was forced to close temporarily. After the reconstruction, the physical environment for medical services has improved remarkably, with different rooms ensured for each type of medical practice. The residents highly appreciate it." (Maka health post)

By promptly expanding the project area immediately after the earthquake, Japanese funds were directed towards the disaster reconstruction. This project is thus an excellent example of a project which was effectively utilized to match the needs of the recipient country.



A new health post that was built following the earthquake

Conclusion, Lessons Learned and Recommendations

In light of the above, this project is evaluated to be highly satisfactory.

In the face of the damage caused by the earthquake which struck some parts of Peru in 2001 during the implementation period of the project, the geographical scope of the project was expanded to allow the reconstruction of school and health post buildings and other work, and the project achieved some positive effects in terms of disaster rehabilitation. A lesson learned for future projects is that prompt and flexible response should be taken at a time of emergency, bearing in mind that a change in project scope may have highly positive impacts/effects which were not originally intended.

Furthermore, like the other projects of FONCODES, sub-

projects were carried out in a participatory manner from the planning, implementation, and up to the completion phase, led by a secretariat comprised of the residents. The secretariat has a high sense of ownership, and transparency was ensured. However, the secretariat is a temporary organization that is dissolved after the completion of all sub-projects. On the other hand, in line with the recent decentralization policy, the budget for municipal governments is increasing and their involvement in the project of FONCODES now ranges from project selection to implementation. Therefore, it is advised that the municipalities carry on the experiences of the secretariat, and thereon build a methodology for developing social, economic and sanitary small-scale infrastructures in poverty areas together with FONCODES.

* All ex-post evaluation reports including this are available on the JICA website: <http://www.jica.go.jp/english/operations/evaluation/index.html>

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Impact Evaluation of Irrigation Projects



Summary of the Analysis

Background of the Evaluation

In recent years, impact evaluations have been promoted internationally, and while the health and education sectors have had many such evaluations, very few have been conducted to verify the impacts of large-scale infrastructure development projects, with technical difficulties being one of the reasons. Bearing this situation in mind, JICA attempted to conduct impact evaluations in the irrigation sector, a sector for which it has provided a number of large-scale infrastructure assistance whereas other aid agencies have implemented few.

Irrigation infrastructure development is expected to generate

a number of impacts and their evaluation is also critical, including increases in agricultural production, stable production volume, increases in agricultural incomes, development of social capital^{*1} through joint activities, and the promotion of new agricultural methods. These impact evaluations will accurately measure the multi-dimensional impacts of irrigation infrastructure development. In doing so, it aims to extract know-how which will contribute to the generation of further project effects, in addition to feedback items for the design of other similar projects.

Evaluation Framework and Policy

To date, JICA has piloted impact evaluations for the following four of its ODA loan projects in Asia. The series of impact evaluations examine not only the effects of irrigation infrastructure development on agricultural production, but also the effectiveness of the new agricultural method - the System of Rice Intensification (SRI) - expected to enable high yield (Indonesia), as well as the impact on social capital (Philippines, Sri Lanka).

To accurately measure the project's effects, a comparison needs to be made between what happened with the project and what would have happened if the project was not carried out (see

"Initiatives for Impact Evaluation" on p.11). In recent years, the randomized controlled trial (RCT) has been considered the most ideal approach for this type of study, and has been widely used. However, RCT is not always feasible in development aid work, particularly for infrastructure development projects. Therefore, the impact evaluations estimated the project's effects using the natural experiment^{*2} method and statistical methods such as the difference in differences^{*3} method using panel data, the propensity score matching^{*4} method, and regression discontinuity design^{*5}.

Projects Examined for Pilot Impact Evaluation

Country	Project	Impact examined (excl. agricultural production)	Method
Thailand	Pasak Irrigation Project (Kaeng Khoi-Ban Mo pump)	-	Difference in differences
Philippines	Bohol Irrigation Project	Impact on social capital	Propensity score matching
Indonesia	Small Scale Irrigation Project (3)	Impact of SRI introduction	Regression discontinuity design / Propensity score matching
Sri Lanka	Walawe Left Bank Irrigation Upgrading and Extension Project	Impact on social capital	Natural experiment

Analysis Results

Data is still being collected for some impact evaluations, and tentative analyses are now being made. Therefore, the following will describe the impacts of irrigation infrastructure based primarily on those case studies for which final analysis results are available.

Regarding the impact on agricultural production, the evaluation results of Indonesia's Small Scale Irrigation Project (3) for which data collection and analyses have been completed are

discussed below. The objective of this project was to increase farmer incomes and reduce poverty through irrigation construction and rehabilitation. Using data from two periods collected in 2007 and 2009 from farming households in one of the project areas of Jeneponto, South Sulawesi, this evaluation analyzed impact on yields during the rainy season and agricultural incomes.

^{*1} The concept of social capital is multidimensional and lacks a uniform definition, but includes trust, norms of reciprocity, values, social networks, and citizen participation. Reports of JICA and the World Bank have previously presented definitions such as, "social factors that influence collective action necessary for the achievement of the development objective, either within a society / group or among societies and groups" and "internal social and cultural coherence of society, the norms and values that govern interactions among people and the institutions in which they are embedded."
^{*2} natural experiment: Approach for estimating project impact when the treatment and a homogeneous control group are formed due to unintended and incidental factors.
^{*3} difference in differences: Method of estimating impact by taking the difference between pre- and post-project and difference between the project treatment and control groups, with regards to the indicator evaluated.
^{*4} propensity score matching: Method of estimating impact by selecting people from the project's control group with similar characteristics as each person in the treatment group, and comparing the two groups.
^{*5} regression discontinuity design: Method of estimating impact by comparing the treatment and control groups after project implementation, in which assignment to a treatment is determined by a cutoff figure specified by an external rule.

Indonesia: Small Scale Irrigation Project (3) "Effects of Irrigation Infrastructure Development on Yield and Agricultural Incomes - Rainy Season"

- Both yield and agricultural income are statistically significantly different between upstream, midstream, and rain-fed areas of irrigated area. Construction of irrigation infrastructure, for example, increased rice cultivation yield during rainy season by an average 1.5t per hectare (about a 40% increase from the 2007 rainy season yield) in upstream, and about 1.0t in midstream. Rice cultivation income increased by 2.70 million rupiahs per hectare (about 27,000 yen) and 1.00 million rupiahs, respectively.
- On average, no major difference in yield and agricultural income between downstream and rain-fed areas. Among high-yielding crop farmers, significant difference existed between downstream and rain-fed areas, and irrigation infrastructure had slight impact. Among low-yielding crop farmers, no difference observed between downstream and rain-fed areas.
- Furthermore, between the most downstream area of irrigated land and the rain-fed area nearby, on average, no difference existed in yield or agricultural income, even by sub-groups with different productivities.

From the above analysis results, it was observed that irrigation infrastructure development contributes to increasing the area's average agricultural production. On closer inspection of watersheds, productivity, etc., however, it was confirmed that the effects of infrastructure construction are not uniform, and some areas do not fully benefit from irrigation infrastructure. In particular, while low productivity farmers in downstream areas, believed to be the poorest populations, were assumed to benefit from irrigation infrastructure at the project planning phase, in actuality water was not sufficiently distributed. A challenge will be to improve water distribution within the area in the future.

Although the analysis results are not final for the other projects,

they reveal, similar to Indonesia, that irrigation infrastructure has positive impacts on productivity. The Philippines case shows no difference in average yields between canals upstream and canals downstream. Nevertheless, within the same canal, provisional estimates show problems with water distribution between upstream and downstream. Thus, in irrigation infrastructure development, ensuring the appropriate distribution of water is a critical issue. In addition, from the analysis results, it was demonstrated that irrigation infrastructure development as well as the institutional strengthening of water management associations contribute to increasing project effectiveness.

Effectiveness of SRI

The irrigation project in Indonesia introduced the new rice cultivation technology of SRI. SRI features seedling transplantation, single seedling planting, sparse planting and cultivation, and intermittent flooding. It is said the technology is environmentally friendly and dramatically increases rice yields. Meanwhile, some scientists express skeptical views, and note that numerous experiments have not produced any statistical evidence of increased yields. In this evaluation, differences in rice cultivation incomes per yield and unit among farmers adopting SRI were examined using the propensity score matching method. The analysis shed light on the following. While the labor cost of farmers needs to be taken into account, the SRI technology was confirmed to have had impact in the project area.

- Compared to existing agricultural methods, SRI increased yield from 1.9t to 2.1t per hectare (roughly 70% of yields through traditional agricultural methods).
- Rice cultivation income is forecast to increase from 2.90 million rupiahs to 3.20 million rupiahs per hectare (double the rice cultivation income through traditional agricultural methods).

(*However, please note these figures do not exclude imputed wages of private labor, etc.)

Meanwhile, the SRI adoption rate has remained at over 10% in the project area. More detailed studies need to be conducted on why many farmers have not adopted SRI, despite its generation of clear effects, and the factors inhibiting the spread of SRI. This know-how then needs to be applied in practice.

Impact on Social Capital

In Sri Lanka, the impact evaluation examined whether access to irrigation led to the development of social capital, such as mutual trust and norms of cooperation, among farmers. The feature of this evaluation is to quantitatively measure social capital, which was discussed by qualitative or inaccurate information, using an experimental economics method. Statistical analysis revealed that the longer farmers have access to irrigation, the more social capital is accumulated.



A canal constructed by the Walawe Left Bank Irrigation Upgrading and Extension Project

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Afghanistan	Tuberculosis Control Project in Afghanistan Phase 2	Technical Cooperation
Afghanistan	Project on Improvement of Literacy Education Management in Afghanistan (LEAF2)	Technical Cooperation
Afghanistan	Urban Health System Strengthening Project	Technical Cooperation
Afghanistan	The Community Development Project for Returnees and Receiving Communities in Nangarhar Province	Technical Cooperation
Afghanistan	Reproductive Health Project in Afghanistan Phase 2	Technical Cooperation
India	The Study for Formulation and Revision of Manuals of Sewerage and Sewage Treatment	Technical Cooperation
Indonesia	JABODETABEK Urban Transportation Policy Integration	Technical Cooperation
Indonesia	Planning and Budgeting Reform for the Performance-Based Budgeting (PBB) System Implementation	Technical Cooperation
Indonesia	Small & Medium Enterprise Human Resource Development under Economic Crisis	Technical Cooperation
Indonesia	The Project for Improvement on Aviation Safety Policy	Technical Cooperation
Indonesia	Identification of Anti-Hepatitis C Virus (HCV) Substances and Development of HCV and Dengue Vaccines	Technical Cooperation
Indonesia	The Project for Developing Capacity of Employment Service Center	Technical Cooperation
Indonesia	Project for Capacity Development of Wastewater Sector through Reviewing the Wastewater Management Master Plan in DKI Jakarta	Technical Cooperation
Indonesia	Project for Master Plan Study on Port Development and Logistics in Greater Jakarta Metropolitan Area	Technical Cooperation
Indonesia	Project for the Master Plan Study of Hydropower Development	Technical Cooperation
Indonesia	Climate Variability Study and Societal Application through Indonesia-Japan "Maritime Continent COE" - Radar-Buoy Network Optimization for Rainfall Prediction	Technical Cooperation
Indonesia	Program Community Assistance around Peat Land Forest Area	Technical Cooperation
Indonesia	Study for Promoting Practical Demand Side Management Program	Technical Cooperation
Indonesia	Reconstruction of Schools Considering Quake-resistant and Community Based Disaster Reduction	Technical Cooperation
Indonesia	Project on Capacity Development for Trade-related Administration	Technical Cooperation
Indonesia	Project on Capacity Building for Restoration of Ecosystems in Conservation Area	Technical Cooperation
Indonesia	Standardization and Quality Control for Horticulture Products of Indonesia (Improvement of Thermal Treatment Technique against Fruit Flies on Fresh Mango)	Technical Cooperation
Indonesia	The Project for Water Supply Service Improvement in the Mamminasata Metropolitan Area	Technical Cooperation
Indonesia	Project on Service Improvement of NAFED	Technical Cooperation
Cambodia	Project for Strengthening Human Resources Development System of Co-medicals	Technical Cooperation
Cambodia	Project on Gender Mainstreaming Phase II	Technical Cooperation
Cambodia	The Strengthening of Construction Quality Control	Technical Cooperation
Cambodia	Project on Capacity Enhancement of Environmental and Social Considerations for Resettlement	Technical Cooperation
Cambodia	The Project for Improving Maternal and Newborn Care through Midwifery Capacity Development	Technical Cooperation
Cambodia	The Project for Improving the Capacity of the National TB Control Program through Implementation of the 2nd National Prevalence Survey	Technical Cooperation
Cambodia	Project for Capacity Development for Implementing the Organic Law at Capital and Provincial Level	Technical Cooperation
Cambodia	Improvement Agricultural River Basin Management & Development Project	Technical Cooperation
Cambodia	Project for Strengthening Medical Equipment Management in Referral Hospitals	Technical Cooperation
Sri Lanka	Disaster Management Capacity Enhancement Project Adaptable to Climate Change	Technical Cooperation
Sri Lanka	The Project for Development Planning for the Rapid Promotion of Reconstruction and Development in Jaffna District	Technical Cooperation
Sri Lanka	Digital Topographic Mapping Project for Reconstruction of Northern Region	Technical Cooperation
Sri Lanka	The Project for Development Planning for the Urgent Rehabilitation of the Resettlement Community in Mannar District	Technical Cooperation
Thailand	Capacity Development and Institutional Strengthening for GHG Mitigation	Technical Cooperation
Thailand	Innovation on Production and Automotive Utilization of Biofuels from Non-Food Biomass	Technical Cooperation
Thailand	The Project on Capacity Development in Disaster Management in Thailand (Phase2)	Technical Cooperation
China	Project on Forest Restoration after the Earthquake in Sichuan Province	Technical Cooperation
China	Project for Capacity Development on Mental Health Services for Reconstruction Support of Sichuan Earthquake	Technical Cooperation
China	Human Resource Development Project for Seismic Engineering and Construction of Buildings	Technical Cooperation
China	Capacity Development Project for Management Plan of Dam in China	Technical Cooperation
China	Project on Forestry Human Resource Development in Western Region of China	Technical Cooperation
China	Japan-China Cooperation Plan of Earthquake First-aid Capacity Training	Technical Cooperation
China	The Project for Harmonization of Local Community and the Crested Ibis	Technical Cooperation
Nepal	Strengthening Community Mediation Capacity for Peaceful and Harmonious Society Project	Technical Cooperation
Pakistan	Project for National Disaster Management Plan	Technical Cooperation
Pakistan	The Project for Improvement of Training Capacity on Grid System Operation and Maintenance	Technical Cooperation
Pakistan	Project for Lahore Transport Master Plan	Technical Cooperation
Bangladesh	Master Plan Study on Coal Power Development in Bangladesh	Technical Cooperation
Timor-Leste	The Project for the Capacity Development of Road Works in Timor-Leste	Technical Cooperation
Philippines	Development Study on Promotion of Local Industry in ARMM	Technical Cooperation
Philippines	Strengthening Maternal and Child Health Services in Eastern Visayas	Technical Cooperation
Philippines	Project on Integrated Coastal Ecosystem Conservation and Adaptive Management under Local and Global Environmental Impacts in the Philippines	Technical Cooperation
Philippines	Enhancement of Earthquake and Volcano Monitoring and Effective Utilization of Disaster Mitigation Information in the Philippines	Technical Cooperation
Philippines	Topographic Mapping Project for Peace and Development in Mindanao	Technical Cooperation
Philippines	Prevention and Control of Leptospirosis in the Philippines	Technical Cooperation
Bhutan	Horticulture Research and Development Project	Technical Cooperation
Bhutan	Study on GLOFs (Glacial Lake Outburst Floods) in the Bhutan Himalayas	Technical Cooperation
Viet Nam	Project for Capacity Enhancement in Construction Quality Assurance	Technical Cooperation
Viet Nam	Project on Strengthening the System and Operation on Standards and Conformance	Technical Cooperation
Viet Nam	Project for Strengthening the Traffic Police Training in Various Police Colleges of Viet Nam	Technical Cooperation
Viet Nam	Project for Capacity Building of National Greenhouse Gas Inventory	Technical Cooperation
Viet Nam	Sustainable Integration of Local Agriculture and Biomass Industries	Technical Cooperation
Viet Nam	Project for Strengthening of Tay Bac University for Sustainable Rural Development of the Northwest Region	Technical Cooperation
Viet Nam	Project for Strengthening Capacity of Water Environmental Management in Viet Nam	Technical Cooperation
Viet Nam	Project for Sustainable Forest Management in the Northwest Watershed Area	Technical Cooperation
Viet Nam	Project for Improvement of the Quality of Human Resources in the Medical Service System	Technical Cooperation
Myanmar	Project for Preservation of Farming Area for Urgent Rehabilitation of Agricultural Production and Rural Life in Areas Affected by Cyclone Nargis	Technical Cooperation
Mongolia	Capacity Development Project for Air Pollution Control in Ulaanbaatar City	Technical Cooperation
Mongolia	Strengthening the Capacity for Solid Waste Management in Ulaanbaatar City	Technical Cooperation
Mongolia	Project for Strengthening Systems for Improving and Disseminating Child-centered Teaching Methods	Technical Cooperation
Mongolia	The Project on Capacity Development in Urban Development Sector in Mongolia	Technical Cooperation
Laos	Project for Urban Development Master Plan Study in Vientiane Capital	Technical Cooperation
Laos	Participatory Land and Forest Management Project for Reducing Deforestation	Technical Cooperation
Laos	Project for Strengthening Integrated Maternal, Neonatal and Child Health Services	Technical Cooperation
Laos	Project for Improving In-service Teacher Training for Science and Mathematics Education	Technical Cooperation
Azerbaijan	Provincial Cities Water Supply and Sewerage Project	ODA Loan
India	Dedicated Freight Corridor Project (Phase 1)	ODA Loan
India	Dedicated Freight Corridor Project (Phase 1) (II)	ODA Loan
India	Kolkata East-West Metro Project (II)	ODA Loan

Country / Area	Project Name	Cooperation Scheme
India	Sikkim Biodiversity Conservation and Forest Management Project	ODA Loan
India	Chennai Metro Project (II)	ODA Loan
India	Delhi Mass Rapid Transport System Project Phase 2 (V)	ODA Loan
India	Rengali Irrigation Project (III)	ODA Loan
Indonesia	Development Policy Loan (VI)	ODA Loan
Indonesia	Climate Change Program Loan (II) with Economic Stimulus and Budget Support	ODA Loan
Indonesia	Regional Solid Waste Management for Mamminasata, South Sulawesi	ODA Loan
Cambodia	Sihanoukville Port Multipurpose Terminal Development Project	ODA Loan
Georgia	East-West Highway Improvement Project	ODA Loan
Sri Lanka	Upper Kotmale Hydro Power Project (II)	ODA Loan
Sri Lanka	Kandy City Wastewater Management Project	ODA Loan
Sri Lanka	Provincial/Rural Road Development Project (Central and Sabaragamuwa Provinces)	ODA Loan
Sri Lanka	Provincial/Rural Road Development Project (Eastern Province)	ODA Loan
Sri Lanka	Eastern Province Water Supply Development Project	ODA Loan
Thailand	Eighth Bangkok Water Supply Improvement Project	ODA Loan
Pakistan	National Transmission Lines and Grid Stations Strengthening Project	ODA Loan
Bangladesh	Chittagong City Outer Ring Road Project	ODA Loan
Bangladesh	South-Western Bangladesh Rural Development Project	ODA Loan
Bangladesh	Rural Electrification Upgradation Project	ODA Loan
Bangladesh	Bheramara Combined Cycle Power Plant Development Project (E/S)	ODA Loan
Philippines	Development Policy Support Program (III)	ODA Loan
Philippines	Emergency Budget Support ODA Loan	ODA Loan
Philippines	Agricultural Credit Support Project	ODA Loan
Philippines	Logistics Infrastructure Development Project	ODA Loan
Viet Nam	Cuu Long (Can Tho) Bridge Construction Project (II)	ODA Loan
Viet Nam	National Highway No.1 Bypass Road Construction Project (II)	ODA Loan
Viet Nam	Energy Efficiency and Renewable Energy Promoting Project	ODA Loan
Viet Nam	Thai Binh Power Plant and Transmission Lines Construction Project (I)	ODA Loan
Viet Nam	Third National Highway No.1 Bridge Rehabilitation Project (II)	ODA Loan
Viet Nam	Eighth Poverty Reduction Support Credit with Economic Stimulus Support	ODA Loan
Viet Nam	Small and Medium-sized Enterprises Finance Project (III)	ODA Loan
Viet Nam	Noi Bai International Airport to Nhat Tan Bridge Connecting Road Construction Project (I)	ODA Loan
Viet Nam	Terminal 2 Construction Project in Noi Bai International Airport (I)	ODA Loan
Viet Nam	Small-scale Pro Poor Infrastructure Development Project (III)	ODA Loan
Viet Nam	Hoa Lac High-tech Park Infrastructure Development Project (E/S)	ODA Loan
Mongolia	Social Sector Support Program	ODA Loan
Laos	Budget Strengthening Support Loan	ODA Loan
Afghanistan	The Project for Introduction of Clean Energy by Solar Electricity Generation System	Grant Aid
Indonesia	The Project For Construction Of Bridges In The Province Of Nusa Tenggara Barat (Phase II)	Grant Aid
Indonesia	The Project For Improvement Of Bridges In Nias Island	Grant Aid
Uzbekistan	The Project for Human Resource Development Scholarship	Grant Aid
Cambodia	Project for Construction of Marine Aquaculture Development Center	Grant Aid
Cambodia	The Project for the Improvement of National Road No.1	Grant Aid
Cambodia	The Project for Rural Drinking Water Supply in Memot District of Kampong Cham Province	Grant Aid
Cambodia	The Project for Construction of Primary Schools in Phnom Penh (Phase III)	Grant Aid
Cambodia	Introduction of Clean Energy by Solar Electricity Generation System	Grant Aid
Kyrgyz Republic	The Project for Human Resource Development Scholarship	Grant Aid
Sri Lanka	The Project for the Improvement of Central Functions of Jaffna Teaching Hospital	Grant Aid
Tajikistan	The Project for Human Resource Development Scholarship	Grant Aid
Tajikistan	The Project for Introduction of Clean Energy by Solar Electricity Generation System	Grant Aid
China	The Project for Human Resource Development Scholarship	Grant Aid
Nepal	The Project for the Improvement of Community Access	Grant Aid
Nepal	The Project for Introduction of Clean Energy by Solar Electricity Generation System	Grant Aid
Pakistan	The Project for Introduction of Clean Energy by Solar Electricity Generation System	Grant Aid
Timor-Leste	The Project for Urgent Improvement of Water Supply System in Bemos-Dili	Grant Aid
Philippines	The Project for Improvement of Aurora Memorial Hospital	Grant Aid
Philippines	The Project for Flood Disaster Mitigation in Camiguin Island	Grant Aid
Philippines	The Project for Human Resource Development Scholarship	Grant Aid
Bhutan	The Project for Improvement of Machinery and Equipment for Construction of Rural Agricultural Road (Phase2)	Grant Aid
Viet Nam	The Project for Improvement of Equipment in the National Hospital for Obstetrics and Gynecology	Grant Aid
Viet Nam	The Food Security Project for Underprivileged Farmers	Grant Aid
Myanmar	The Project for Construction of Primary School-cum-Cyclone Shelter in the Area Affected by Cyclone "Nargis"	Grant Aid
Myanmar	The Project for Human Resource Development Scholarship	Grant Aid
Maldives	The Project for Clean Energy Promotion in Male'	Grant Aid
Mongolia	The Project for Human Resource Development Scholarship	Grant Aid
Mongolia	The Project for Introduction of Clean Energy by Solar Electricity Generation System	Grant Aid
Laos	The Project for Human Resource Development Scholarship	Grant Aid
Laos	The Programme for Forest Information Management	Grant Aid
Laos	The Project for Introduction of Clean Energy by Solar Electricity Generation System	Grant Aid
Oceania		
Palau	The Capacity Enhancement Project for Coral Reef Monitoring	Technical Cooperation
Fiji	ICT for Human Development and Human Security Project	Technical Cooperation
Papua New Guinea	Port Moresby Sewerage System Upgrading Project	ODA Loan
Samoa	The Programme for Improving the Weather Forecasting System and Meteorological Warning Facilities	Grant Aid
Solomon Islands	The Project for Construction of Market and Jetty in Auki	Grant Aid
Solomon Islands	The Project for Improvement of Water Supply System in Honiara and Auki	Grant Aid
Tonga	The Project for Introduction of Clean Energy by Solar Home System	Grant Aid
Palau	The Project for Introduction of Clean Energy by Solar Electricity Generation System	Grant Aid
Fiji	The Project for Construction of Information and Communication Technology Center at the University of the South Pacific (Phase II)	Grant Aid
Marshall Islands	The Project for Introduction of Clean Energy by Solar Electricity Generation System	Grant Aid
Micronesia	The Project for Introduction of Clean Energy by Solar Electricity Generation System	Grant Aid
Middle East		
Yemen	Broadening Regional Initiative for Developing on Girls Education (Part II)	Technical Cooperation
Iran	Project for Study on Small Farming and Rural Development Plan for Poverty Reduction in South Khorassan	Technical Cooperation
Iran	Participatory Forest and Rangeland Management Project in Chaharmahal-va-Bakhtiari Province	Technical Cooperation
Egypt	Comprehensive National Transportation Master Plan in Egypt	Technical Cooperation
Egypt	Master Plan Study on Development of Agricultural Produce Marketing for Small Scale Farmers in the Upper Egypt	Technical Cooperation

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Country / Area	Project Name	Cooperation Scheme
Syria	Water Resources Information Center Project Phase II	Technical Cooperation
Syria	Project for City Planning and Development in Damascus Metropolitan Area	Technical Cooperation
Syria	Project for Strengthening Reproductive Health Phase II	Technical Cooperation
Tunisia	Valorization of Bio-resources in Semi Arid and Arid Land for Regional Development	Technical Cooperation
Morocco	Capacity Development of Fisheries Resource Monitoring for Sustainable Management of Small Pelagic Resources in the Kingdom of Morocco	Technical Cooperation
Iraq	Al-Akkaz Gas Power Plant Construction Project	ODA Loan
Iraq	Water Supply Sector Loan Project in Mid-Western Iraq	ODA Loan
Iraq	Deralok Hydropower Plant Construction Project	ODA Loan
Egypt	Gulf of El Zayt Wind Power Plant Project	ODA Loan
Tunisia	Metropolitan Railway Electrification Project (II)	ODA Loan
Morocco	Mediterranean Road Construction Project (II)	ODA Loan
Morocco	Provincial Cities Water Supply Project	ODA Loan
Yemen	The Project for Introduction of Clean Energy by Solar Electricity Generation System	Grant Aid
Yemen	The Food Security Project for Underprivileged Farmers	Grant Aid
Egypt	The Project for Introduction of Clean Energy by Solar Electricity Generation System	Grant Aid
Syria	Project for Introduction of Clean Energy by Solar Electricity Generation System	Grant Aid
Syria	The Project for Improvement of Equipment for Solid Waste Treatment in Local Cities (Phase 2)	Grant Aid
Tunisia	The Project for Desalination of Groundwater in Southern Region	Grant Aid
Palestine	The Project for Introduction of Clean Energy by Solar Electricity Generation System	Grant Aid
Palestine	The Project for Support for the Public Activities of the Communities in Jordan Valley	Grant Aid
Jordan	Project for Energy Conservation through Upgrading Water Supply Network in the Hashemite Kingdom of Jordan	Grant Aid
Africa		
Uganda	Project for Community Development for Promoting Return and Resettlement of IDP in Northern Uganda	Technical Cooperation
Uganda	Project for Rural Road Network Planning in Northern Uganda	Technical Cooperation
Uganda	Project for Master Plan Study on Hydropower Development	Technical Cooperation
Uganda	The Technical Assistant Support to Improve the National Capacity of Animal Disease Diagnoses and Control	Technical Cooperation
Ethiopia	Project for Developing Countermeasures against Landslide in the Abay River Gorge	Technical Cooperation
Ethiopia	The Study on Quality and Productivity Improvement (KAIZEN) in the Federal Democratic Republic of Ethiopia	Technical Cooperation
Ethiopia	The Development Study on the Strengthening Agricultural Marketing System in Southern Nations, Nationalities and People's Region	Technical Cooperation
Ethiopia	Project for Enhancing Development and Dissemination of Agricultural Innovations through Farmer Research Groups (FRGs)	Technical Cooperation
Ethiopia	The Study on Groundwater Resources Assessment in the Rift Valley Lakes Basin	Technical Cooperation
Ghana	Financial Management Improvement Project of the Ministry of Food and Agriculture	Technical Cooperation
Ghana	Project for Sustainable Development of Rain-fed Lowland Rice Production in the Republic of Ghana	Technical Cooperation
Kenya	Project for Strengthening of People Empowerment Against HIV/AIDS in Kenya (SPEAK) Phase 2	Technical Cooperation
Kenya	Smallholder Horticulture Empowerment and Promotion Unit Project	Technical Cooperation
Kenya	Capacity Building for the Customs Administrations of the Eastern African Region (Phase 2)	Technical Cooperation
Kenya	Strengthening of Capacity on Roads Maintenance Management through Contracting	Technical Cooperation
Kenya	Strengthening Management for Health in Nyanza Province	Technical Cooperation
Zambia	The Project for Scaling Up of Quality HIV/AIDS Care Service Management	Technical Cooperation
Zambia	Establishment of Rapid Diagnostic Tools for Tuberculosis and Trypanosomiasis and Screening of Candidate Compounds for Trypanosomiasis	Technical Cooperation
Zambia	Rural Extension Service Capacity Advancement Project	Technical Cooperation
Sierra Leone	Capacity Development for Comprehensive District Developments in the Northern Region of Sierra Leone	Technical Cooperation
Sudan	Project on Improvement of Food security in Semi-arid Regions of Sudan through Management of Root Parasitic Weeds	Technical Cooperation
Sudan	Project for Improvement of Basic Skills and Vocational Training in Southern Sudan Phase 2	Technical Cooperation
Sudan	Strengthening Mathematics and Science Education in Southern Sudan (SMASSESS)	Technical Cooperation
Sudan	Capacity Building Project for the Implementation of the Executive Programme for the Agricultural Revival	Technical Cooperation
Tanzania	Technical Cooperation in Strengthening Participatory Planning and Community Development Cycle for Good Local Governance	Technical Cooperation
Nigeria	Technical Cooperation for Development Planning on One Local Government One Product Programme for Revitalizing the Rural Economy in the Federal Republic of Nigeria	Technical Cooperation
Nigeria	Strengthening of Mathematics and Science Education in Nigeria Project Phase 2	Technical Cooperation
Nigeria	Project for Enhancing the Function of the National Water Resources Institute	Technical Cooperation
Niger	Project on Strengthening Mathematics and Science in Secondary Education in Niger (SMASSE-NIGER Phase 2)	Technical Cooperation
Burkina Faso	Improving Sustainable Water and Sanitation Systems in Sahel Region in Africa: Case of Burkina Faso	Technical Cooperation
Burkina Faso	School Management Committee Support Project	Technical Cooperation
Burundi	Project for Establishing Digital Topographic Database for Bujumbura City	Technical Cooperation
Benin	Project for the Extension of Inland Aquaculture	Technical Cooperation
Mali	The Study on the Conservation of Central Niger Delta through Wise Use of Natural Resources in Mopti Prefecture	Technical Cooperation
South Africa	Climate Simulation and Projections for Adaptation Impact in the Southern African Region	Technical Cooperation
South Africa	Observational Studies in South African Mines to Mitigate Seismic Risks	Technical Cooperation
Uganda	Upgrading of Atiak-Nimule Road Project	ODA Loan
Uganda	Interconnection of Electric Grids of Nile Equatorial Lakes Countries Project	ODA Loan
Kenya	Olkaria I Unit 4 and 5 Geothermal Power Project	ODA Loan
Tanzania	Seventh Poverty Reduction Support Credit	ODA Loan
Mozambique	Nampula-Cuamba Road Upgrading Project	ODA Loan
Ethiopia	The Food Security Project for Underprivileged Farmers	Grant Aid
Ghana	The Project for Improvement of Access to Basic Education in Deprived Areas	Grant Aid
Ghana	The Project for Introduction of Clean Energy by Solar Electricity Generation System	Grant Aid
Ghana	Grant Assistance for Underprivileged Farmers (KR2)	Grant Aid
Gabon	The Project for Introduction of Clean Energy by Solar Electricity Generation System	Grant Aid
Gabon	The Project for Construction of Artisanal Fisheries Support Center in Libreville	Grant Aid
Gambia	The Project for Rural Water Supply (Phase III)	Grant Aid
Gambia	The Food Security Project for Underprivileged Farmers	Grant Aid
Kenya	The Project for HIV/AIDS Control	Grant Aid
Democratic Republic of the Congo	The Project for Rehabilitation and Modernization of the Poids Lourds Avenue in Kinshasa	Grant Aid
Democratic Republic of the Congo	The Project for Rehabilitation of Ngaliema Water Treatment Plant in Kinshasa	Grant Aid
Zambia	The Project for the Improvement of the Medical Equipment of the University Teaching Hospital	Grant Aid
Djibouti	The Project for Construction of Primary and Secondary Education Teacher Training Institute	Grant Aid
Djibouti	The Project for Introduction of Clean Energy by Solar Electricity Generation System	Grant Aid
Senegal	The Project for Improvement of Water Supply Facilities in the Tambacounda Region	Grant Aid
Senegal	The Food Security Project for Underprivileged Farmers	Grant Aid
Tanzania	The Project for the Improvement of Masasi-Mangaka Road	Grant Aid
Central African Republic	Project for Construction of Primary Schools	Grant Aid
Nigeria	The Project for Water Supply in Bauchi and Katsina States	Grant Aid
Burkina Faso	Project for Construction of the Primary Education Teachers Training Institute in Dori	Grant Aid
Burundi	Project for Rehabilitation of the Public Transportation	Grant Aid
Burundi	The Project for Introduction of Clean Energy by Solar Electricity Generation System	Grant Aid
Malawi	The Project for Replacement of South Rukuru Bridge on the Main Road M001	Grant Aid

Country / Area	Project Name	Cooperation Scheme
Malawi	The Project for Introduction of Clean Energy by Solar Electricity Generation System	Grant Aid
Mali	The Project for Bridge Construction Program on the Mali-Senegal South Corridor (Phase III)	Grant Aid
Mozambique	The Project for Construction of Secondary Schools	Grant Aid
Rwanda	The Project for Rural Water Supply (Phase II)	Grant Aid
Latin America		
Cuba	Improvement of the Capacity on Urban Solid Waste Management in Havana City, the Republic of Cuba	Technical Cooperation
Guatemala	Strengthening Water Associations and Community Development	Technical Cooperation
Dominican Republic	Sustainable Tourism Based on Public-Private Partnership	Technical Cooperation
Nicaragua	Strengthening of Activities of Survey and Control for Chagas Disease	Technical Cooperation
Brazil	Carbon Dynamics of Amazonian Forests	Technical Cooperation
Brazil	Development of Genetic Engineering Technology of Crops with Stress Tolerance against Degradation of Global Environment	Technical Cooperation
Peru	Master Plan for Development of Geothermal Energy in Peru	Technical Cooperation
Peru	Project for Enhancement of Earthquake and Tsunami Disaster Mitigation Technology in Peru	Technical Cooperation
Bolivia	Study on Impact of Glacier Retreat on Water Resource Availability for Cities of La Paz and El Alto	Technical Cooperation
Bolivia	Project of Value-added Agriculture and Forestry for Improvement of the Livelihood of Small Scale Farmers in Northern La Paz	Technical Cooperation
Mexico	The Project for the Establishment of End-of-Life Vehicle (ELV) Management Plan	Technical Cooperation
Brazil	Sanitation Improvement Project for Santa Catarina Coastal Region	ODA Loan
Peru	Lima Marginal Areas Sanitary Improvement Project (II)	ODA Loan
Peru	North Lima Metropolitan Area Water Supply and Sewerage Optimization Project (I)	ODA Loan
Antigua and Barbuda	The Project for Construction of Artisanal Fisheries Facilities in Barbuda Island	Grant Aid
Uruguay	The Project for Introduction of Clean Energy by Solar Electricity Generation System	Grant Aid
Ecuador	The Project for Construction of the New Macara International Bridge	Grant Aid
Guatemala	The Project for Promotion of Productive Activities Using Clean Energy in Northern Villages	Grant Aid
Guatemala	The Project for Construction of the Cultural Heritage Preservation and Research Center in Tikal National Park	Grant Aid
Grenada	The Project for Improvement of Traditional Fishing Community Infrastructure at Gouyave	Grant Aid
Nicaragua	The Project for Capacity Building in the Maintenance of Tracks and Roads	Grant Aid
Belize	The Project for Introduction of Clean Energy by Solar Electricity Generation System	Grant Aid
Europe		
Serbia	The Project for Capacity Development of Digital Basic State Mapping in Serbia	Technical Cooperation
Turkey	Ankara Water Supply Project	ODA Loan
Bosnia and Herzegovina	Flue Gas Desulphurization Construction Project for Ugljevik Thermal Power Plant	ODA Loan
Romania	Bucharest International Airport Access Link Project	ODA Loan
Albania	The Project for the Improvement of the Medical Equipment of the Regional Level Emergency Centers	Grant Aid
Mid-term Review (77 Projects)		
Asia		
Afghanistan	Strengthening of Teacher Education Program Phase 2	Technical Cooperation
Afghanistan	Project for Capacity Development and Establishment of Road Maintenance Management System	Technical Cooperation
Afghanistan	Improvement of Rice-based Agriculture in Nangarhar Province	Technical Cooperation
Indonesia	The Project on BAKORKAMLA (Indonesian Maritime Security Coordination Body) Structural Enhancement	Technical Cooperation
Indonesia	Project on Capacity Development for RBOs in Practical Water Resources Management and Technology	Technical Cooperation
Indonesia	Tuberculosis Control Project	Technical Cooperation
Indonesia	Project on Enhancement of Civilian Police Activities (Phase 2)	Technical Cooperation
Indonesia	Beef Cattle Development Project Utilizing Local Resources in the Eastern Part of Indonesia	Technical Cooperation
Indonesia	The Project to Enhance Surveillance System for Avian Influenza	Technical Cooperation
Indonesia	The Integrated Program for Junior Secondary Education Improvement	Technical Cooperation
Uzbekistan	The Project on Capacity Development for Landslide Monitoring	Technical Cooperation
Cambodia	The Project for the Improvement of the Training on Civil Matters at the Royal School for Judges and Prosecutor	Technical Cooperation
Cambodia	Capacity Building for Water Supply System in Cambodia (Phase 2)	Technical Cooperation
Cambodia	The Legal and Judicial Development Project (Phase 3)	Technical Cooperation
Cambodia	Capacity Development of Provincial Rural Development in Northeastern Provinces	Technical Cooperation
Kyrgyz Republic	The Project for the Support for the Dissemination of Biogas Technologies	Technical Cooperation
Sri Lanka	Increasing the Capacity of Integrated Management in Irrigated Agriculture in Dry Zone	Technical Cooperation
Sri Lanka	Development of Culture-oriented Tourism in Sigiriya	Technical Cooperation
Sri Lanka	Project for Promoting on Energy Efficiency Improvement	Technical Cooperation
Sri Lanka	Project on Rural Livelihood Improvement in Hambantota District	Technical Cooperation
Thailand	Asia-Pacific Development Center on Disability (Phase 2)	Technical Cooperation
Thailand	Regional Cooperation Project for Animal Disease Control among Cambodia, Lao P.D.R., Malaysia, Myanmar, Thailand and Viet Nam (ADC Project Phase 2)	Technical Cooperation
China	The Project for Protection of Natural Grassland and Nomad Settlement in Xinjiang Uygur Autonomous Region	Technical Cooperation
China	Model Planning Project for Water Saving Society in China	Technical Cooperation
China	The Model Project for Water-saving Irrigation of Environmental Conservation Type in Grassland	Technical Cooperation
China	Project for Surveillance and Control for Vaccine-preventable Diseases	Technical Cooperation
Nepal	The Support for Improvement of Primary School Management	Technical Cooperation
Pakistan	EPI/Polio Control Project	Technical Cooperation
Pakistan	Highway Research and Training Center	Technical Cooperation
Bangladesh	Strengthening of Activities in Rural Development Engineering Center (RDEC) Project Phase II	Technical Cooperation
Philippines	Establishment of Ecological Solid Waste Management in Three Cities	Technical Cooperation
Philippines	The Project for Enhancement of Local Governance and Community Empowerment in Micro-watersheds in Misamis Oriental	Technical Cooperation
Philippines	ARMM Human Capacity Development Project	Technical Cooperation
Viet Nam	Project on Integrated UMRT and Urban Development for Hanoi	Technical Cooperation
Viet Nam	Project for Institutional Capacity Development for Infrastructure Finance in Viet Nam	Technical Cooperation
Viet Nam	Technical Assistance for the Legal and Judicial System Reform	Technical Cooperation
Viet Nam	Project for Enhancing Capacity of Vietnamese Academy of Science and Technology in Water Environment Protection (Phase 2)	Technical Cooperation
Malaysia	Bornean Biodiversity and Ecosystems Conservation Programme (Phase II)	Technical Cooperation
Myanmar	Project on ICT Human Resource Development at ICT Training Institute in the Union of Myanmar	Technical Cooperation
Mongolia	Mongolia-Japan Human Resources Development Cooperation Center Project Phase 2	Technical Cooperation
Laos	Project for Enhancing Capacity of Public Investment Program Management	Technical Cooperation
Laos	Project for Medical Education and Research for the Seththathirath Hospital	Technical Cooperation
Laos	Supporting Community Initiatives for Primary Education Development in the Southern Provinces	Technical Cooperation
Viet Nam	Cai Mep Thi Vai International Port Construction Project	ODA Loan
Viet Nam	Nhat Tan Bridge Construction Project (I)	ODA Loan
Oceania		
Fiji	Operation of Earthquake Observation Network	Technical Cooperation
Middle East		
Egypt	Productivity and Quality Improvement Center	Technical Cooperation
Egypt	The Project for Conservation Centre in the Grand Egyptian Museum (Phase 1)	Technical Cooperation

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Country / Area	Project Name	Cooperation Scheme
Africa		
Uganda	Technical Assistance Support to Sustainable Irrigated Agriculture Development Project in Eastern Uganda	Technical Cooperation
Uganda	NERICA Rice Promotion Project in Uganda	Technical Cooperation
Ethiopia	Strengthening Infectious Disease Prevention, Control and Response in Amhara Region	Technical Cooperation
Ethiopia	The Water Sector Capacity Development Project in Southern Nations, Nationalities and People's Region	Technical Cooperation
Eritrea	Project for Strengthening Medical Equipment Management System for Quality Health Services	Technical Cooperation
Ghana	Technical and Vocational Education and Training (TVET) Support Project	Technical Cooperation
Ghana	Human Resource Development for Disseminating PV systems	Technical Cooperation
Zambia	Food Crop Diversification Support Project for Enhancement of Food Security	Technical Cooperation
Sudan	Frontline Maternal and Child Health Empowerment Project in Sudan	Technical Cooperation
Sudan	Human Resources Development for Water Supply	Technical Cooperation
Tanzania	Technical Cooperation in Supporting Service Delivery Systems of Irrigated Agriculture	Technical Cooperation
Tanzania	The Project for Enhancement of Water Supply Management of Zanzibar Water Authority	Technical Cooperation
Tanzania	Technical Cooperation in Capacity Development for Regional Referral Health Management	Technical Cooperation
Tanzania	Technical Cooperation in Capacity Development for the ASDP Monitoring and Evaluation System	Technical Cooperation
Niger	Malaria Control Project	Technical Cooperation
Burkina Faso	Participatory and Sustainable Forest Management in the Province of Comoe	Technical Cooperation
Burkina Faso	Project for Dissemination of Improved Seeds in Burkina Faso	Technical Cooperation
Madagascar	HIV Prevention Strengthening Project	Technical Cooperation
Mozambique	Sustainable Water Supply, Sanitation and Hygiene Promotion in Zambezia Province	Technical Cooperation
Rwanda	Project for Strengthening the Capacity of Tumba College of Technology (TCT)	Technical Cooperation
Latin America		
Uruguay	Project on Water Pollution Control and Management of Water Quality in the Santa Lucia River Basin	Technical Cooperation
El Salvador	Supporting the Small-scale Farmers in the Eastern Region	Technical Cooperation
Guatemala	Project for Capacity Development of the Tourism Self-management Committees in Guatemala	Technical Cooperation
Guatemala	Establishment of Mechanism for Agricultural Technology Diffusion and Application to Improve Living Condition of Indigenous and Non-indigenous Small-scale Farmers of Occidental Altiplano in Guatemala	Technical Cooperation
Costa Rica	Reinforcement of the Integral System of Rehabilitation with Community Participation in Brunca Region of Republic of Costa Rica, with Focus on Human Security	Technical Cooperation
Jamaica	Capacity Building of Water Maintenance	Technical Cooperation
Bolivia	Project for Rural Development in Altiplano Central	Technical Cooperation
Bolivia	Project "Water Is Health and Life" Phase 2	Technical Cooperation
Latin America	Project on Capacity Development for Disaster Risk Management in Central America "BOSAI"	Technical Cooperation

Terminal Evaluation (114 Projects)

Asia		
Afghanistan	Tuberculosis Control Project	Technical Cooperation
Afghanistan	Reproductive Health Project	Technical Cooperation
India	Conservation and Wise-use of Natural Resources of Chilika Lagoon through Community Participation	Technical Cooperation
Indonesia	Project for the Promotion of the Sustainable Coastal Fisheries	Technical Cooperation
Indonesia	The Institutional Revitalization Project for Flood Management in JABODETABEK	Technical Cooperation
Indonesia	The Project for Research and Education Development on Information and Communication Technology in Sepuluh Nopember Institute of Technology	Technical Cooperation
Indonesia	Project on Ensuring Maternal and Child Health Service with MCH Handbook Phase 2	Technical Cooperation
Indonesia	Improvement of District Health Management Capacity in South Sulawesi Province Project	Technical Cooperation
Uzbekistan	Uzbekistan-Japan Center for Human Development (Phase 2)	Technical Cooperation
Kazakhstan	Kazakhstan-Japan Center for Human Development (Phase 2)	Technical Cooperation
Cambodia	The Project on Improving Official Statistics Phase 2	Technical Cooperation
Cambodia	Freshwater Aquaculture Improvement and Extension Project	Technical Cooperation
Cambodia	The Project for Improving Maternal and Child Health Service in Rural Areas	Technical Cooperation
Cambodia	Improvement of Local Administration in Cambodia	Technical Cooperation
Cambodia	Battambang Rural Area Nurturing and Development	Technical Cooperation
Cambodia	The Project for Traffic Improvement in Phnom Penh City	Technical Cooperation
Kyrgyz Republic	The Project for the Support for the Dissemination of Biogas Technologies	Technical Cooperation
Sri Lanka	Improving School Management to Enhance Quality of Education with Special Reference to Science and Mathematics	Technical Cooperation
Sri Lanka	Project for Establishment of Japan Sri Lanka College of Technology to Strengthen Technical Education and Training in Sri Lanka (Japan-Sri Lanka College of Technology)	Technical Cooperation
Sri Lanka	Project for Agricultural and Rural Development for Rehabilitation and Reconstruction through Community Approach in Trincomalee District (TRINCAP)	Technical Cooperation
Thailand	Land Readjustment Promotion Project	Technical Cooperation
China	The Village-based Integrated Poverty Alleviation Model Project in Daozhen County and Leishan County, Guizhou Province, China	Technical Cooperation
China	Economic Legal Infrastructure Development Project	Technical Cooperation
China	The Project for Business Human Resource Development in Dalian	Technical Cooperation
China	Sino-Japan Forestry Ecology Training Center Project	Technical Cooperation
Nepal	Community-based Alternative Schooling Project	Technical Cooperation
Nepal	Strengthening Monitoring and Evaluation System Project	Technical Cooperation
Pakistan	Punjab Literacy Promotion Project (Phase - II)	Technical Cooperation
Bangladesh	Participatory Rural Development Project (PRDP-2)	Technical Cooperation
Bangladesh	Project for Enhancing Capacity of Public Service Training in Bangladesh	Technical Cooperation
Bangladesh	Safe Motherhood Promotion Project	Technical Cooperation
Timor-Leste	Irrigation and Rice Cultivation Project in Manatuto	Technical Cooperation
Timor-Leste	The Project for the Capacity Development of Teaching Staff in the Faculty of Engineering, the National University of Timor-Leste	Technical Cooperation
Philippines	Information Technology Human Resource Development Project	Technical Cooperation
Philippines	Project on the Development and Promotion of Location - Specific Integrated High - Yielding Rice Technologies	Technical Cooperation
Philippines	Capacity Development Project on Water Quality Management in the Philippines	Technical Cooperation
Philippines	Strengthening the Flood Management Function of DPWH	Technical Cooperation
Philippines	Small Water Districts Improvement Project	Technical Cooperation
Philippines	Improvement of Quality Management for Highway and Bridge Construction and Maintenance	Technical Cooperation
Philippines	Maternal and Child Health Project	Technical Cooperation
Philippines	Local Governance and Rural Empowerment Project for Davao Region	Technical Cooperation
Philippines	Comprehensive Outreach and Fish Breeding Project	Technical Cooperation
Viet Nam	Project for Implementation Support for 3R Initiative of Hanoi City to Contribute to the Development of a Sound Material-cycle Society	Technical Cooperation
Viet Nam	Project for Improvement of Medical Services in the Central Region of Viet Nam	Technical Cooperation
Viet Nam	Capacity Development of Participatory Irrigation Management System through Viet Nam Institute for Water Resources Research for Improvement of Agricultural Productivity in Viet Nam	Technical Cooperation
Viet Nam	Project for Enhancing Functions of Agricultural Cooperatives	Technical Cooperation
Viet Nam	The Strengthening Capacity for Measles Vaccine Production	Technical Cooperation
Viet Nam	Project for Traffic Safety Human Resource Development in Hanoi	Technical Cooperation
Viet Nam	Vietnam-Japan Human Resources Cooperation Center (Phase 2)	Technical Cooperation

Country / Area	Project Name	Cooperation Scheme
Viet Nam	Project for Strengthening Health Services Provision in Hoa Binh Province	Technical Cooperation
Myanmar	The Eradication of Opium Poppy Cultivation and Poverty Reduction Project in Kokang Special Region No.1	Technical Cooperation
Myanmar	Major Infectious Diseases Control Project	Technical Cooperation
Myanmar	Community-oriented Reproductive Health Project	Technical Cooperation
Myanmar	The Project on Rural Water Supply Technology in the Central Dry Zone	Technical Cooperation
Mongolia	The River Basin Management Model Project for the Conservation of Wetland and Ecosystem and Its Sustainable Use in Mongolia	Technical Cooperation
Laos	Project for Human Resource Development of Nursing/Midwifery	Technical Cooperation
Laos	Meteorological and Hydrological Services Improvement Project	Technical Cooperation
Laos	Forestry Strategy 2020 Implementation Promotion Project	Technical Cooperation
Laos	Aquaculture Improvement and Extension Project Phase 2	Technical Cooperation
Laos	Lao-Japan Human Resource Cooperation Center (Phase 2)	Technical Cooperation
Oceania		
Samoa	The Project for Enhancing Management Capacity for National Parks and National Reserves of Samoa	Technical Cooperation
Solomon Islands	Project for Strengthening of Malaria Control	Technical Cooperation
Fiji	Project for Strengthening EPI in Pacific Region	Technical Cooperation
Middle East		
Iran	Anzali Wetland Ecological Management Project	Technical Cooperation
Iran	Establishment of Emergency Response Plan for the First 72 Hours after an Earthquake	Technical Cooperation
Egypt	The Project for Improvement of Management Capacity of Operation and Maintenance for SHAPWASCO	Technical Cooperation
Syria	Modernization of Cargo Transportation Project	Technical Cooperation
Tunisia	Coastal Fisheries Resource Management in Tunisia	Technical Cooperation
Palestine	The Project for Capacity Development on Solid Waste Management in Jericho and Jordan River Rift Valley in Palestine	Technical Cooperation
Palestine	Strengthening Support System Focusing on Sustainable Agriculture in Jericho and Jordan River Rift Valley	Technical Cooperation
Jordan	Capacity Development Project for Non-revenue Water Reduction in Jordan Phase 2	Technical Cooperation
Jordan	Integrating Health and Empowerment of Women in the South Region Project	Technical Cooperation
Africa		
Uganda	Instructors and Managers Training for Vocational Education & Training in Uganda	Technical Cooperation
Ethiopia	Participatory Forest Management Project in Belete-Gera Regional Forest Priority Area Phase 2	Technical Cooperation
Ghana	Project for the Scaling Up of CHPS Implementation in UWR	Technical Cooperation
Ghana	Project for HIV/AIDS Prevention through Education (HAPE) at Eastern & Ashanti Region	Technical Cooperation
Kenya	Smallholder Horticultural Empowerment Project	Technical Cooperation
Kenya	Blood Safety Project	Technical Cooperation
Zambia	Project for Participatory Village Development in Isolated Areas	Technical Cooperation
Zambia	The Sustainable Operation and Maintenance Project for Rural Water Supply (SOMAP) Phase 2	Technical Cooperation
Sudan	Project for Improvement of Basic Skills and Vocational Training in Southern Sudan	Technical Cooperation
Swaziland	Establishment of Geographic Information System for Improvement of Capacity for Economic Development Planning	Technical Cooperation
Senegal	Project on Safe Water and Support for Community Activities Phase 2	Technical Cooperation
Senegal	Project on the Improvement of Educational Environment	Technical Cooperation
Tanzania	Formulation and Training of the Guideline of the DADP Guidelines on Irrigation Scheme Development	Technical Cooperation
Tanzania	Project for Institutional Capacity Strengthening for HIV Prevention	Technical Cooperation
Tanzania	Project for Strengthening Capacity for LBT Training at ATTI	Technical Cooperation
Tanzania	The Rural Water Supply and Sanitation Capacity Development Project	Technical Cooperation
Niger	Support to the Improvement of School Management through Community Participation in Niger (School for All) Phase 2	Technical Cooperation
Madagascar	Project for Improvement of Maternal, Newborn and Child Health Service	Technical Cooperation
Malawi	Malawi Rural Electrification Promotion Project	Technical Cooperation
Mozambique	Integrated Agricultural Development Project for Small Scale Farmers in Chokwe Irrigation Scheme	Technical Cooperation
Latin America		
Ecuador	Project for Enhancement of the Volcano Monitoring Capacity	Technical Cooperation
El Salvador	The Project for Shellfish Aquaculture Development in the Republic of El Salvador	Technical Cooperation
El Salvador	The Project for Strengthening Nursing Education and In-service Training in El Salvador, Guatemala, Honduras, Nicaragua and the Dominican Republic	Technical Cooperation
Guatemala	Project for Child Health in Department of Quetzaltenango	Technical Cooperation
Guatemala	Water Environment Improvement in Metropolitan Area	Technical Cooperation
Dominican Republic	The Sustainable Watershed Management Project in the Upper Area of the Sabana Yegua Dam in the Dominican Republic	Technical Cooperation
Dominican Republic	Regional Primary Health Service Reinforcement Project	Technical Cooperation
Nicaragua	Project to Strengthen Reproductive Health	Technical Cooperation
Nicaragua	Improvement of Cattle Productivity for Small and Medium Scale Farmers Project in the Republic of Nicaragua	Technical Cooperation
Panama	The Project for Improvement of Solid Waste Management for the Municipality of Panama in the Republic of Panama	Technical Cooperation
Paraguay	Project of the Technological Center on Agriculture in the Republic of Paraguay (CETAPAR)	Technical Cooperation
Paraguay	Project of Strengthening of Paraguayan Quality and Productivity Center (CEPPROCAL)	Technical Cooperation
Bolivia	The Quality Improvement of Primary School Education	Technical Cooperation
Bolivia	Project of the Technological Center on Agriculture and Livestock in the Republic of Bolivia (CETABOL)	Technical Cooperation
Mexico	Coastal Water Quality Monitoring Network Project	Technical Cooperation
Mexico	The Project on Technology Transfer for Supporting Industry (Stamping Technology)	Technical Cooperation
Mexico	Project to Support the Women's Empowerment in the Mayan Region	Technical Cooperation
Mexico	Coastal Wetland Conservation in Yucatan Peninsula	Technical Cooperation
Latin America	Mercosur Tourism Promotion Project	Technical Cooperation
Europe		
Turkey	The Project on Strengthening the Program of Expanding Industrial Automation Technologies Department	Technical Cooperation
Turkey	Improvement of Livelihood for Small-scale Farmers in Eastern Black Sea Region	Technical Cooperation
Bosnia and Herzegovina	The Project for Sustainable Regional Development through Eco-tourism in Bosnia and Herzegovina	Technical Cooperation
Ex-post Evaluation (85 Projects)		
Asia		
Indonesia	The Project for Strengthening of Polytechnic Education in Electric-Related Technology	Technical Cooperation
Malaysia	Project on Networked Multimedia Education System	Technical Cooperation
India	Simhadri Thermal Power Station Project (I)-(IV)	ODA Loan
Indonesia	Urban Arterial Roads Improvement in Metropolitan Project	ODA Loan
Indonesia	Development Policy Loan (I)-(IV)	ODA Loan
Indonesia	Sipansihaporas Hydroelectric Power Plant Project (E/S)(1)(2)	ODA Loan
Indonesia	Construction of Railway Double Tracking of Cikampek-Cirebon	ODA Loan
Indonesia	Palembang Airport Development Project (1)	ODA Loan
Indonesia	Way Sekampung Irrigation Project (1)-(3)	ODA Loan
Kazakhstan	Astana Airport Reconstruction Project	ODA Loan
Sri Lanka	Bandaranaike International Airport Development Project	ODA Loan
Sri Lanka	Small-scale Infrastructure Rehabilitation and Upgrading Project (I)(II)	ODA Loan
Sri Lanka	Road Network Improvement Project	ODA Loan
Sri Lanka	Mahaweli System C Upgrading Project	ODA Loan

What is JICA's Evaluation System?

Part 1. Project Evaluation in JICA

Efforts to Improve its Evaluation

Topics

Overview of Ex-Post Evaluation Results

Part 2. FY2009 Evaluation Results

Ex-post Evaluation Evaluation Results

Impact Evaluation

Reference

List of Evaluations

Country / Area	Project Name	Cooperation Scheme
Thailand	National Metrology System Development Project (I)(II)	ODA Loan
Thailand	Industrial Ring Road Construction Project	ODA Loan
Thailand	Power Distribution System Reinforcement Project (5-1)(5-2)	ODA Loan
Thailand	Pasak Irrigation Project (Kaeng Khoi-Ban Mo Pumping Irrigation)	ODA Loan
Thailand	Distribution System Reliability Improvement Project	ODA Loan
Thailand	Pak Kret Bridge and Connecting Road Construction Project	ODA Loan
China	Hainan Development Project (Yangpu Port)	ODA Loan
China	Gansu Water-saving Irrigation Project	ODA Loan
China	Jilin Song Liao River Basin Environmental Improvement Project	ODA Loan
China	Guangxi Water Supply Project	ODA Loan
China	Jiangxi Water Supply Project	ODA Loan
China	Tongyu River Irrigation Development Project (I)(II)	ODA Loan
China	Huai River Henan Water Pollution Control Project (I)(II)	ODA Loan
China	Heilongjiang Heihe-Bei'an Road Construction Project	ODA Loan
China	Heilongjiang Songhua River Basin Environmental Improvement Project	ODA Loan
China	Xiang River Basin Hunan Environmental Improvement Project (I)(II)	ODA Loan
China	Chongqing Urban Railway Construction Project	ODA Loan
China	Shuoxian-Huanghua Railway Construction Project (I)-(IV)/Huanghua Port Construction Project	ODA Loan
China	Changsha Water Supply Project	ODA Loan
China	Hohhot and Baotou Environmental Improvement Project (I)(II)	ODA Loan
China	Hohhot Water Supply Project	ODA Loan
China	Benxi Environmental Improvement Project (I)-(III)	ODA Loan
China	Liuzhou Environmental Improvement Project	ODA Loan
Nepal	Kali Gandaki 'A' Hydroelectric Project	ODA Loan
Bangladesh	Northern Rural Infrastructure Development Project	ODA Loan
Philippines	Lower Agusan Development Project (Irrigation Component)	ODA Loan
Philippines	Lower Agusan Development Project (Irrigation & Flood Control Component)	ODA Loan
Philippines	Selected Airports (Trunkline) Development Project (Phase II)	ODA Loan
Philippines	Rehabilitation and Maintenance of Bridges Project (Phase IV)	ODA Loan
Philippines	Arterial Road Links Development Project (Phase IV)	ODA Loan
Philippines	Northern Negros Geothermal Project	ODA Loan
Philippines	Rural Road Network Development Project (II)	ODA Loan
Philippines	Philippine - Japan Friendship Highway Mindanao Section Rehabilitation Project (I)(II)	ODA Loan
Philippines	Pinatubo Hazard Urgent Mitigation Project (Phase II)	ODA Loan
Philippines	Southern Mindanao Integrated Coastal Zone Management Project	ODA Loan
Philippines	Mindanao Container Terminal Project	ODA Loan
Viet Nam	National Highway No.10 Improvement Project (I)(II)	ODA Loan
Viet Nam	Da Nang Port Improvement Project	ODA Loan
Viet Nam	Hai Van Tunnel Construction Project (I)-(III)	ODA Loan
Viet Nam	Hanoi Drainage Project for Environment Improvement (I)(II)	ODA Loan
Viet Nam	Binh Bridge Construction Project	ODA Loan
Indonesia	The Project for Rehabilitation of Gresik Steam Power Plant Units 3 and 4	Grant Aid
Indonesia	The Project for Bridge Construction in the Central and North Sulawesi Provinces	Grant Aid
Cambodia	The Project for Improvement of Water Supply System in Siem Reap Town	Grant Aid
Cambodia	The Project for Improvement of Equipment for Demining Activities (Phase IV)	Grant Aid
Sri Lanka	The Project for Improvement of Water Supply System in Matara District	Grant Aid
Nepal	The Project for the Extension and Reinforcement of Power Transmission and Distribution System in Kathmandu Valley (Phase III)	Grant Aid
Pakistan	The Project for the Retrieval of Sewage and Drainage System in Lahore City	Grant Aid
Timor-Leste	The Project for Improvement of Roads between Dili and Cassa	Grant Aid
Laos	The Project for Rehabilitation of the Nam Ngum I Hydropower Station	Grant Aid
Middle East		
Morocco	Establishment of Extension System for Artisan Fisheries in Morocco	Technical Cooperation
Tunisia	Integrated Reforestation Project	ODA Loan
Tunisia	Telecommunications Network Development Project (II)(III)/Interurban Telecom. Transmission Network Expansion Project	ODA Loan
Egypt	The Project for Improvement of Water Supply System at the Northern Pyramids Area in Giza City	Grant Aid
Africa		
Kenya	International Parasite Control Project	Technical Cooperation
Kenya	The Research and Control of Infectious Diseases Project	Technical Cooperation
Niger	School for All	Technical Cooperation
Malawi	The Project on Aquaculture and Technical Development of Malawian Indigenous Species	Technical Cooperation
Swaziland	Northern Main Road Construction Project	ODA Loan
Angola	The Project for Improvement of Josina Machel Hospital	Grant Aid
Kenya	The Project for Improvement of Facilities for Control of Infectious and Parasitic Diseases at Kenya Medical Research Institute	Grant Aid
Niger	The Project for Construction of Primary Schools in Dosso and Tahoua Regions	Grant Aid
Mali	The Project for Construction of Primary Schools (Phase II)	Grant Aid
South Africa	The Project for Improvement of Medical Equipment for Primary Health Care Institutes in Eastern Cape Province	Grant Aid
Mozambique	The Project for Groundwater Development for Rural Water Supply in Zambezia Province	Grant Aid
Lesotho	The Project for Construction of Primary Schools	Grant Aid
Latin America		
Peru	Social Sector Development Project in Sierra Area II (FONCODESII)	ODA Loan
Peru	Yuncan Hydro Power Plant Construction Project (Paucartambo II)	ODA Loan
Peru	Southern Lima Metropolitan Sewerage Improvement Project	ODA Loan
Europe		
Albania	Drin River Hydropower Stations Rehabilitation Project	ODA Loan
Bulgaria	Port of Bourgas Expansion Project	ODA Loan
Ex-post Monitoring (1 Project)		
Asia		
Philippines	Metro Manila LRT Line I Capacity Expansion Project	ODA Loan

FY2009 Ex-Post Evaluation Findings and Reports

All ex-post evaluation reports, including the ex-post evaluation findings in Part 2, Chapter 2 of the Annual Evaluation Report 2010, are available on the JICA website.

■ Evaluation in post implementation stage
(ex-post evaluation and ex-post monitoring)
<http://www.jica.go.jp/english/operations/evaluation/index.html>

By scheme:

- ⊗ Go to "Ex-Post Evaluation (Technical Cooperation)"
and click on [FY2009](#).
- ⊗ Go to "Ex-Post Evaluation (Grant Aid)"
and click on [FY2009](#).
- ⊗ Go to "Ex-Post Evaluation (ODA Loan)"
and click on [FY2009](#).

List of External Evaluators

The evaluators for Ex-post Evaluation are introduced below.

List of External Evaluators of Ex-post Evaluations (FY2009)

The table below lists the external evaluators who conducted the ex-post project evaluations in FY2009.

Profiles are shown only for team leader's marked with *. (Listed in Japanese syllabic order. Titles omitted)
Complementary personnel from other organizations are marked with (*)

External Evaluators	Organization Commissioned	Profile	Project
Koichiro Ishimori	Value Frontier Co., Ltd.	Earned credits towards a Ph.D. degree at the Science and Technology Policy Research, University of Sussex. Assumed his present position in 2006. Specializes in development project evaluation and water resource policy.	Cambodia The Project for Improvement of Equipment for Demining Activities (Phase IV)
			Pakistan The Project for the Retrieval of Sewage and Drainage System in Lahore City
			Mozambique The Project for Groundwater Development for Rural Water Supply in Zambezia Province
Seiro Ito* Kazunari Tsukada Satoshi Ohira(*)	Institute of Developing Economies Japan External Trade Organizations	Earned a Ph.D. in Economics from Brown University. Assumed his present position in 1991. Specializes in development economics, applied microeconomics, applied time series analysis, and impact evaluation.	Thailand Pasak Irrigation Project (Kaeng Khoi-Ban Mo Pumping Irrigation)
Kenichi Inazawa	Office Mikage, LLC	Earned an MA in International Policy Studies from the Monterey Institute of International Studies. After working for the local government (evaluation of fixed assets, etc.) and a government financial institution, assumed his present position in 2007. Specializes in project evaluation and monitoring.	Bulgaria Port of Bourgas Expansion Project
			Albania Drin River Hydropower Stations Rehabilitation Project
Hajime Onishi* Masumi Shimamura Kenichi Inazawa	Mitsubishi UFJ Research and Consulting Co., Ltd. /Office Mikage, LLC	Earned Master's degrees from the Department of Civil Engineering, Waseda University and the Development Planning Unit, University College London. After serving as a Japan Overseas Cooperation Volunteer (JOCV) and working as a consultant, assumed his present position in 2007. Specializes in ex-post evaluation of projects, economic and financial analysis, and infrastructure development.	Viet Nam National Highway No.10 Improvement Project (I)(II)
			Viet Nam Binh Bridge Construction Project
			China Chongqing Urban Railway Construction Project
			China Hainan Development Project (Yangpu Port)
Hajime Onishi	Mitsubishi UFJ Research and Consulting Co., Ltd.	Earned Master's degrees from the Department of Civil Engineering, Waseda University and the Development Planning Unit, University College London. After serving as a Japan Overseas Cooperation Volunteer (JOCV) and working as a consultant, assumed his present position in 2007. Specializes in ex-post evaluation of projects, economic and financial analysis, and infrastructure development.	Malawi The Project on Aquaculture and Technical Development of Malawian Indigenous Species
			Morocco Establishment of Extension System for Artisan Fisheries in Morocco
Machi Kaneko* Jun Totsugawa(*)	Earth & Human Corporation	Graduated from the English Department, Faculty of Foreign Studies, Reitaku University. After working with Taiyo Consultants Co., Ltd., assumed her present position in 2001. Specializes in evaluation, education, and environmental and social consciousness.	China Liuzhou Environmental Improvement Project
			China Benxi Environmental Improvement Project (I)-(III)
			China Hohhot and Baotou Environmental Improvement Project (I)(II)
			China Hohhot Water Supply Project
Yasuhiro Kawabata* Akemi Serizawa(*)	Sanshu Engineering Consultant Co., Ltd	Earned Master's degrees in civil engineering from Oregon State University and University of Washington, and a Ph.D. degree in engineering from the Graduate School of Science and Technology, Nihon University. Engineer. After working at the Japan Highway Public Corporation, a private consulting company, and the World Bank, assumed his present position in 2005. Simultaneously serves as an advisor to the World Bank. Specializes in development planning, transport/traffic planning, and social structure.	Swaziland Northern Main Road Construction Project
			Tunisia Telecommunications Network Development Project (II)(III)
			Tunisia Interurban Telecom. Transmission Network Expansion Project
			Tunisia Integrated Reforestation Project

External Evaluators	Organization Commissioned	Profile	Project
Yasuhiro Kawabata* Takako Haraguchi(*)	Sanshu Engineering Consultant Co., Ltd	Earned Master's degrees in civil engineering from Oregon State University and University of Washington, and a Ph.D. degree in engineering from the Graduate School of Science and Technology, Nihon University. Engineer. After working at the Japan Highway Public Corporation, a private consulting company, and the World Bank, assumed his present position in 2005. Simultaneously serves as an advisor to the World Bank. Specializes in development planning, transport/traffic planning, and social structure.	Indonesia Construction of Railway Double Tracking of Cikampek-Cirebon
			Indonesia Urban Arterial Roads Improvement in Metropolitan Project
			Thailand Industrial Ring Road Construction Project
			Thailand Pak Kret Bridge and Connecting Road Construction Project
Yasuhiro Kawabata* Junko Miura(*)	Sanshu Engineering Consultant Co., Ltd	Earned Master's degrees in civil engineering from Oregon State University and University of Washington, and a Ph.D. degree in engineering from the Graduate School of Science and Technology, Nihon University. Engineer. After working at the Japan Highway Public Corporation, a private consulting company, and the World Bank, assumed his present position in 2005. Simultaneously serves as an advisor to the World Bank. Specializes in development planning, transport/traffic planning, and social structure.	China Jiangxi Water Supply Project
			China Guangxi Water Supply Project
			China Changsha Water Supply Project
Yuko Kishino* Kenji Momota	IC Net Limited	Earned a Master's degree from the Graduate School of Public and International Affairs, University of Pittsburgh. Assumed her present position in 1996. Possesses extensive experience in development project-related studies. Specializes in project evaluation and participatory development.	China Heilongjiang Heihe-Bei'an Road Construction Project
			China Huanghua Port Construction Project
			China Shuoxian-Huanghua Railway Construction Project (I)-(IV)
Nobuyuki Kobayashi* Hajime Onishi(*) Masumi Shimamura(*) Keishi Miyazaki	OPMAC Corporation	Earned an MBA from the School of Business, Georgetown University. After working with a private investment advisory company and a government financial institution, assumed his present position in 2007. Specializes in ODA evaluation and financial analysis.	Indonesia Sipansihaporas Hydroelectric Power Plant Project (E/S)(1)-(2)
			India Simhadri Thermal Power Station Project (I)-(IV)
			Nepal Kali Gandaki 'A' Hydroelectric Project
			Philippines Northern Negros Geothermal Project
Nobuyuki Kobayashi* Atsushi Fujisawa(*)	OPMAC Corporation	Earned an MBA from the School of Business, Georgetown University. After working with a private investment advisory company and a government financial institution, assumed his present position in 2007. Specializes in ODA evaluation and financial analysis.	Thailand National Metrology System Development Project (I)(II)
			Thailand Power Distribution System Reinforcement Project (5-1)(5-2)
			Thailand Distribution System Reliability Improvement Project
Ryujiro Sasao* Haruko Awano	IC Net Limited	Earned an MBA from the University of British Columbia. After working in the private sector and at the UN World Food Programme (WFP), assumed his present position in 1995. Specializes in ODA project evaluation, project management, and business management.	Philippines Philippine - Japan Friendship Highway Mindanao Section Rehabilitation Project (I)(II)
			Philippines Lower Agusan Development Project (Irrigation Component)
			Philippines Lower Agusan Development Project (Irrigation & Flood Control Component)
			Philippines Rehabilitation and Maintenance of Bridges Project (Phase IV)
			Philippines Arterial Road Links Development Project (Phase IV)
Philippines Rural Road Network Development Project (II)			
Mimi Sheikh* Yusuke Hasegawa	International Development Center of Japan	Earned a Master of Urban Planning from the Wagner Graduate School of Public Service, New York University. After working in the private sector and at the Japan External Trade Organization (JETRO), assumed her present position in 1997. Possesses extensive experience in development project-related studies and domestic evaluations and studies. Specializes in ODA evaluation (policy evaluation, project evaluation), institutional evaluation, and evaluation support.	Indonesia The Project for Strengthening of Polytechnic Education in Electric-Related Technology
			Malaysia Project on Networked Multimedia Education System

External Evaluators	Organization Commissioned	Profile	Project
Masumi Shimamura* Kenji Wakasugi Masami Sugimoto	Mitsubishi UFJ Research and Consulting Co., Ltd. /SHINKO Overseas Management Consulting, Inc.	Earned a Master in Public Policy (MPP) from the John F. Kennedy School of Government, Harvard University. After working with a financial institution and an international organization, assumed her present position in 2003. In 2005, appointed as associate professor at the National Graduate Institute for Policy Studies (GRIPS) Development Forum (until March 2008). Specializes in development policy and development administration.	Indonesia Development Policy Loan (I)-(IV)
Masaaki Shiraishi* Miho Kawahatsu Keiko Sakamoto Sawa Hasegawa(*)	Waseda Research Institute Corporation	Graduated from the Department of Mining, First Faculty of Science and Engineering, Waseda University. After working with a general trading company and as a private consultant, assumed his present position in 2006. Specializes in industry development, project planning, and project evaluation.	Simplified Ex-post Evaluation Package 2 (Continental Southeast Asia, East and Central Asia and the Caucasus)
Masami Sugimoto* Masahiro Osako(*)	SHINKO Overseas Management Consulting, Inc.	Earned a Master's degree (economic policy) from the Graduate School of Economics, Keio University. Certified accountant. After working at Shinko Audit Corporation, assumed his present position in 1987. Serves as visiting professor at the Graduate School of International Cooperation Studies, Takushoku University. Specializes in public financial management and finance/business management.	Indonesia Way Sekampung Irrigation Project (1)-(3) China Gansu Water-Saving Irrigation Project China Tongyu River Irrigation Development Project (I)(II)
Hajime Sonoda* Takeshi Yoshida(*)	Global Group 21 Japan, Inc.	Graduated from the School of Engineering, University of Tokyo (urban planning). After working as a researcher and consultant for domestic research organizations, assumed his present position in 2005. Specializes in project evaluation/management and urban/residential environment planning.	Peru Southern Lima Metropolitan Sewerage Improvement Project Peru Yuncan Hydro Power Plant Construction Project (Paucartambo II) Peru Social Sector Development Project in Sierra Area II (FONCODESII)
Hiroshi Tsuruta* Yuki Fukuda	Binko International Ltd.	Earned a Master's degree in agriculture from the Graduate School of Agricultural and Life Sciences, the University of Tokyo and a Master's degree in international health from the School of Public Health and Tropical Medicine, Tulane University. After serving as a research resident with the Japan Foundation for AIDS Prevention, assumed his present position in 2007. Specializes in international health.	Kenya The Project for Improvement of Facilities for Control of Infectious and Parasitic Diseases at Kenya Medical Research Institute Kenya International Parasite Control Project Kenya The Research and Control of Infectious Diseases Project
Akihiro Nakagome* Otomo Shiro Akemi Shimura Hideyuki Takagi Keisuke Nishikawa	Ernst & Young SN Global Solution Co., Ltd	Graduated from the Department of Electrical Engineering, University of Yamanashi. After working at Shin Nihon Audit Corporation, assumed his present position in 2007. Specializes in evaluation, finance, accounting, and organizational reform.	Simplified Ex-post Evaluation Package 1 (Insular Southeast Asia, Middle East)
Akihiro Nakagome* Hisae Takahashi	Ernst & Young SN Global Solution Co., Ltd	Graduated from the Department of Electrical Engineering, University of Yamanashi. After working at Shin Nihon Audit Corporation, assumed his present position in 2007. Specializes in evaluation, finance, accounting, and organizational reform.	Indonesia The Project for Bridge Construction in the Central and North Sulawesi Provinces Timor-Leste The Project for Improvement of Roads between Dili and Cassa
Keisuke Nishikawa* Hisae Takahashi	Ernst & Young SN Global Solution Co., Ltd	Earned a Ph.D. in Development Studies from the Centre for Development Studies, the University of Auckland. After serving as a researcher with a private think tank and the Ministry of Foreign Affairs of Japan, assumed his present position. Specializes in development policy, development economics, and ODA evaluation.	Sri Lanka Mahaweli System C Upgrading Project Sri Lanka Small-Scale Infrastructure Rehabilitation and Upgrading Project (I)(II) Sri Lanka Road Network Improvement Project Bangladesh Northern Rural Infrastructure Development Project
Yasuhiro Hiruma	International Techno Center Co., Ltd.	Graduated from the School of Telecommunication Engineering, Tokai University and the Faculty of Economics, Hosei University. After working in development and design of medical electronic equipment with a private company and serving as a JICA expert, assumed his present position in 2009. Specializes in health and medical administration, health human resources development, and ex-post evaluation of projects.	Angola Project for Improvement of Josina Machel Hospital South Africa Project for Improvement of Medical Equipment for Primary Health Care Institutes in Eastern Cape Province
Nobuko Fujita* Keiko Asado Junko Noguchi Maki Hamaoka Keiko Watanabe	Foundation for Advanced Studies on International Development	Enrolled in a Ph.D. course in policy and management at the Doshisha University Graduate School of Policy and Management. After working in the private sector, assumed her present position. Specializes in project evaluation and policy evaluation.	Simplified Ex-post Evaluation Package 3 (South Asia, Latin America and the Caribbean)

External Evaluators	Organization Commissioned	Profile	Project
Junko Miura* Yoko Ogawa Yukiko Sueyoshi	Global Link Management Inc.	Graduated from the Faculty of Law, Keio University and earned a Master's degree from the Monterey Institute of International Studies. After working with the United Nations Development Programme (UNDP), assumed her present position in 2006. Specializes in policy evaluation, project evaluation, and social development.	Simplified Ex-post Evaluation Package 4 (Africa)
Junko Miura* Yukiko Sueyoshi	Global Link Management Inc.	Graduated from the Faculty of Law, Keio University and earned a Master's degree from the Monterey Institute of International Studies. After working with the United Nations Development Programme (UNDP), assumed her present position in 2006. Specializes in policy evaluation, project evaluation, and social development.	Egypt The Project for Improvement of Water Supply System at the Northern Pyramids Area in Giza City
			Cambodia The Project for Improvement of Water Supply System in Siem Reap Town
			Sri Lanka The Project for Improvement of Water Supply System in Matara District
Mitsue Mishima* Hisami Nakamura Junko Fujiwara Keiichi Fujitani(*)	OPMAC Corporation	Earned a Master's degree in Development Studies from Carleton University. After working with JETRO and a research institute of a financial institution, assumed her present position in 1999. Specializes in project evaluation, socioeconomic analysis, and environmental and social consciousness.	Indonesia The Project for Rehabilitation of Gresik Steam Power Plant Units 3 and 4
			Nepal The Project for the Extension and Reinforcement of Power Transmission and Distribution System in Kathmandu Valley (Phase III)
			Laos The Project for Rehabilitation of the Nam Ngum I Hydropower Station
Shinichi Mizuta* Juzo Inada(*) Mamoru Kobayashi(*)	Mitsubishi Research Institute, Inc.	Earned a Ph.D. from the Graduate Program on Human Security, the University of Tokyo. After working with the Ministry of Foreign Affairs of Japan, assumed his present position in 2002. Specializes in project evaluation, policy evaluation, and peace building.	Philippines Mindanao Container Terminal Project
			Philippines Southern Mindanao Integrated Coastal Zone Management Project
			Philippines Pinatubo Hazard Urgent Mitigation Project (Phase II)
Keishi Miyazaki* Takako Haraguchi(*)	OPMAC Corporation	Completed a postgraduate course at the School of International Development, University of East Anglia, and at the Graduate School Division of Public Administration, International Christian University. Assumed his present position in 1996. Significant experience in conducting development project-related studies. Specializes in ODA evaluation (policy evaluation/project evaluation), economic/social analysis, and human resource development.	Viet Nam Hanoi Drainage Project for Environment Improvement (I)(II)
			Viet Nam Da Nang Port Improvement Project
			Viet Nam Hai Van Tunnel Construction Project (I)-(III)
Kenji Momota* Yuko Kishino Kaori Honda	IC Net Limited	Graduated from the School of Law, Waseda University. After working in the private sector, assumed his present position in 2004. Specializes in ODA project evaluation, economic and financial analysis, and study of economic and policy systems.	China Heilongjiang Songhua River Basin Environmental Improvement Project
			China Huai River Henan Water Pollution Control Project (I)(II)
			China Xiang River Basin Hunan Environmental Improvement Project (I)(II)
			China Jilin Song Liao River Basin Environmental Improvement Project
Shinichi Mori* Kanuka Setsuko Satoru Takahashi Shimako Narahara	IMG Inc.	Graduated from the Yale School of Management. After working at the World Bank and as a private consultant, assumed his present position in 1998. Specializes in organizational analysis, development strategy design, and economic and social project planning and design.	Niger Project for Construction of Primary Schools in Dosso and Tahoua Regions
			Niger School for All
			Mali The Project for Construction of Primary Schools (Phase II)
			Lesotho The Project for Construction of Primary Schools
Takao Yamaguchi* Kinuyo Fukuda Rie Kahara	Gyros Corporation/ R-Quest Corporation	Graduated from the Department of Architecture, School of Engineering, Yokohama National University. After working as a private consultant, assumed his present position in 2005. Specializes in aircraft mechanical policy and airport planning.	Indonesia Palembang Airport Development Project (1)
			Philippines Selected Airports (Trunkline) Development Project (Phase I)(Phase II)
			Sri Lanka Bandaranaike International Airport Development Project
			Kazakhstan Astana Airport Reconstruction Project

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