



Asia **Indonesia**



Upland Plantation and Land Development Project at Citarik Sub-watershed

Contributing to the conservation and economic development of a river basin through participatory farm/forest land conservation

[External Evaluator]

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Rating

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

Project Objectives

To alleviate sediment runoff and enhance farm productivity by conserving farm / forest land and stabilizing torrents and their banks in the catchment basin (33,388 ha) of the Citarik River that flows through Bandung and Sumedang Prefectures in West Java Province, thereby contributing to river basin conservation and economic development.

Outline of the Loan Agreement

- Loan amount / Disbursed amount: 4,128 million yen / 3,960 million yen
- Loan agreement: December 1995
- Terms and conditions: 2.3% interest rate; 30-year repayment period (including a 10-year grace period); general untied
- Final disbursement date: December 2006
- Executing agency: Directorate General of Regional Development, Ministry of Home Affairs

Effects of Project Implementation (Effectiveness, Impact)

The planned volume of annual sediment runoff and control rate of sediment runoff for twelve tributaries of the Citarik River were approximately 1.2 million tons and 81% respectively, whereas the actual volume and control rate were approximately 1.97 million tons and 69% respectively in 2007. Both indicators achieved more than 85% of the plan.

A flood caused by 60 mm of rainfall in 2005 during project implementation inflicted damage on an area of 2,800 ha. In 2007, a similar flood due to the same amount of rainfall inflicted only an area of approximately 15 ha; the flooded area was dramatically reduced. According to an economic survey on 120 out of about 300,000 households residing in the area of the Citarik River basin, the average agricultural income per household after the project was nearly twice as the income prior to the project, that is, from about Rp. 0.77 million to Rp. 1.50 million (inflation-adjusted income).

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

Relevance

In the West Java Province, high priority is assigned to river basin control measures to alleviate sediment runoff and floods with aims of stabilizing people's livelihood and promoting agriculture. This project has been highly relevant with Indonesia's national policies and development needs at the times of both appraisal and ex-post evaluation.

Efficiency

Although project period was much longer than planned (170% of the plan), project cost was lower than planned (82% of the plan), therefore the evaluation for efficiency is moderate.

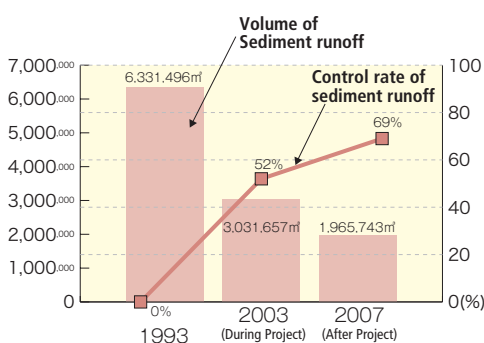
Sustainability

Though some problems have been observed in terms of operation and maintenance of torrent and bank facilities and water level recorders provided under this project, sustainability of the project is fair.

Conclusion, Lessons Learned and Recommendations

In light of the above, this project is evaluated to be satisfactory. Recommendations include developing the capacity of the Village Maintenance Committee (KKLD) in terms of the maintenance of torrent and bank facilities, allocating an adequate budget to the operations and maintenance of roads and irrigation facilities in Bandung and Sumedang, repairing the broken automatic water level recorders, and transferring the recorders to the Citarum Forest Conservation Sub-center.

Volume and control rate of sediment runoff



[Source] F/S and Executing Agency

*All ex-post evaluation reports including this can be referred to in JICA's website, "Evaluations" → "Ex-post Evaluation (ODA Loan)" ([URL:http://www.jica.go.jp/english/operations/evaluation/oda_loan/post/](http://www.jica.go.jp/english/operations/evaluation/oda_loan/post/))

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