JBIC ODA Loan Projects: Mid-term Review

Project Title: Philippines "Malitubog – Maridagao Irrigation Project I" (PH-P112)

[Outline of Loan Agreement]

Loan Amount/Disbursed Amount: 4,867 million yen/4,561 million yen (as of March 2005) Loan Agreement: February 1990 (16th year) Executing Agency: National Irrigation Administration of the Philippines

[Project Objective]

This project's objective was to increase and stabilize agricultural productivity in the central region of Mindanao Island via the construction of irrigation facilities, thereby contributing to the alleviation of poverty by improving the incomes of local farmers.

Contractor: Shinsung Corp.(Korea), China Electric Po
Mid-term Review
erm Philippine Development Plan (2004-2010) places a s that the development of irrigation infrastructure is key to a
ed plan, the restoration and development of Mindanao I s in the region. The development of irrigation infrastruct nang Ani, GMA). e development of irrigation systems in central Mindanao I ment Bank (ADB)
icht Dahk (ADD)
ments in 2004) 6,526ha ⁻¹ began in 2002 in the Maridagao area, and the area under c the planned area) in the three-year period from 2002-2004. en steady increases in crop yields, which increased by appro 85 tons. In the Detailed Design, yield of rice per hectare in 4.75 tons in the dry season, while the average yield was 5.0 hers benefiting from the project has also increased from 1,5 ruse fee collection rate ² had reached just 36.8% in 2004. gation is also affected by political factors, and that it is not re- chievements in 2004) ed) area: 1,155ha ⁻¹ a served by irrigation in Malitubog was around 27% of the work caused by problems with land acquisition and cour r Philippine government funding, but irrigated agriculture H suspended in 2001 because the executing agency was strap a targeted for development, construction work on 1,728ha when the work on the other areas will be finished, it is imp
r si a w

Consultant: Sanyu Consultants Contractor: Shinsung Corp.(Korea), China Electric Power Technology Import and Export Corp. (China)

a strong emphasis on strengthening the nation's o achieving this goal.

Island are identified as being crucial to ongoing cture is also highlighted in the current agriculture

Island and has thus maintained its significance to

cultivation increased by around 12% from 3,000ha 4.

proximately 50% in the three years from 2002, from in this area was calculated to be 4 tons per year in .0 tons per hectare, thus exceeds the projection.

,572 to 1,737, or by 10%.

Available data show that the distribution of water necessarily rational.

the planned level (mainly in consequence of holdups ounterpart fund shortages). The work is currently that has yet to get off the ground. Activities at the pilot apped for cash.

ha is scheduled for completion in fiscal 2005, but possible to calculate cropping targets for the entire

ng (agriculture) is new, and who are too poor to social component budget from the Office of the rs, tillers and sprayers have been extended to 6 tended in the future.

¹ The executing agency is scheduled to conduct the final review of the irrigated area at the end of 2005. In addition, Upper Malitbog area may be further developed. Therefore the above mentioned estimate width may change.

² Water use fee collection rate: the amount collected/the amount billed

[Efficiency]			
(1) Outputs	 (1) Outputs (as detailed below) Development of irrigation systems in the Maridagao and Malitubog areas of North Cotabato and Maguindanao provinces in central Mindanao. Construction of head works/intake gates Construction of water channels (144km) and drainage canals (157km) in the Maridagao and Upper Malitubog areas (Areas targeted for construction: Maridagao 6,625ha, Upper Malitubog area: 4,215ha) Consulting services: 331M/M (man-months) 	 (1) Changes were made to both construction areas: Maridagao to 6,562ha; Upper M Initially, the work in both Maridagao and Upper Malitubog area was to be exect constraints on the loan amount, the decision was made to execute the works in by the executing agency. The executing agency subsequently submitted a requ Upper Malitubog area, thus some of the Japanese ODA loan funds were redire laterals) in the area (1,728ha) (the outstanding work is to be covered by funds p Consulting services: 336M/M 	
(2) Project period	(2) Feb. 1990 – Dec. 1996 (83 months)	 (2) Feb. 1990 – Nov. 2001 (Maridagao area)³ Feb. 1990 – Dec. 2005 (Upper Malitubog area) (Reasons for delays): construction has been held up by security problems, land acquive weather 	
(3) Project cost	(3) 6,489 million yen	(3) 7,996 million yen	
[Lessons Learned and	[Recommendations] Original plans for the project envisaged that project effects would start to be generated across the entire area with the completion of Phase 2, thus the second phase, taking priority issues with other projects and political stability in the area into consideration. In the event that the Phase 2 project goes ahead, the matter of in		
Recommendations]	into the project needs to be discussed with the provincial governments.		
[Indicators set for the ex-post evaluation]	n.a.	 Area irrigated by the project (ha) Benefited area (ha) Cropping intensity Cultivated area by crops (ha) ISF collection efficiency Production volume of major crops (t/year) Yield of major crops per hectare : rainy season/dry season (t/ha) Gross annual average farm income 	
		(Consultation between JBIC and implementing agency is needed regarding target value.	

Malitubog area to 4,278ha.

kecuted using Japanese ODA loan funds, but due to in the Upper Malitubog area using funds provided quest for funding assistance for the outputs in the rected to cover part of the work (main canals and s put up by the executing agency).

equisition procedures, funding shortages and bad

thought needs to be given to the execution of the f incorporating the presidential social components

ıe.)

³ The construction of siphons and bridges was excluded from the contract with the contractor (C-1) due to security problems at the sites and difficulties encountered in negotiations over land, and the work came under direct NIA supervision. Siphon and bridge construction work was completed in November 2003. The project period cited above does not include the construction of siphons and bridges.