

Member's Annual Report 2007

Date of preparation: 4/15/2008

Name of the editor: Herman Idrus, CES

1. About the organization

(1) Name of the organization and postal address of the office

Jasa Tirta II Public Corporation (Perusahaan Umum Jasa Tirta II).

Postal address:

Jalan Lurah Kawi – Jatiluhur

41151 Purwakarta

Indonesia

(2) The representative of the organization

Ir. Djendam Gurusinga, Dipl.HE

President Director

(3) Purposes and roles of your organization

a) Historical background of the organization

In 1956 Ir.H.Djuanda, the late Prime Minister of Indonesia declared the commencement of the Jatiluhur Multipurpose Project. The main aim of the project was to enhance the rice production to achieve self-supporting national staple food. The project comprised of two major activities, namely construction of a dam across Citarum River to create a reservoir with its impounding capacity of $3.0 \times 10^9 \text{ m}^3$ including the hydroelectric power plants with the install capacity of 150 MW, and develop technically irrigation system over 240,000 ha of paddy field in the north plain of West Java Province. The project finished in 1967, since then the dam, its reservoir and the power plants were named Ir. H. Djuanda.

The benefits reveal upon the completion of the project, among other: (1) flood occurs during rainy season that inundated 20,000 ha of fertile land in the North plain could be minimized, (2) farmers have the opportunity to cultivate paddy with technically irrigated system over an area of 240,000 ha, two crops per year, (3) raw water supply for domestics, municipalities and industries especially for Jakarta the Capital City of Indonesia, (4) hydropower plant with the installed capacity of 150 MW, (5) fresh water as well as brackish water fisheries development in coastal area, and (6) beautiful scenery surrounding the reservoir for tourism and water sport.

After the construction project finished in 1967, the Government of Indonesia (GOI) through the Ministry of Industry established the Jatiluhur State Own Company with the Government Regulation No. 8/1967 dated 24 July 1967. This company was intended to optimize the Jatiluhur Hydro-electric Power Plant (HEPP) generation. As a corporation, the Jatiluhur State Own Company was aimed to gain profit. Thus the operation of reservoir was designed to obtain the maximum revenue from the Jatiluhur HEPP production. In the meantime, the water resources infrastructures for irrigation and other purposes that completed in 1968 was handled by three institutions, those are: West Java Public Works for Purwakarta Region (under West Java Provincial Government), Jatiluhur Irrigation Project (under Ministry of Public Works), and Jatiluhur Tertiary Irrigation Project (under Ministry of Home Affairs).

In 1969 the Jatiluhur Irrigation Board was established to coordinate and optimize the reservoir operation for multipurpose, consisted of those four related institutions, (1) Jatiluhur State Own Company, (2) West Java Public Works for Purwakarta Region (under West Java Provincial Government), (3) Jatiluhur Irrigation Project (under Ministry of Public Works), and (4) Jatiluhur Tertiary Irrigation Project (under Ministry of Home Affairs). The reservoir operation then operated firstly to meet the downstream requirements, i.e. irrigation, domestic, municipal, and industry, not only to maximize the Jatiluhur HEPP production. In 1970 those four institutions were merged became the Jatiluhur Public Authority (POJ) based on Government Regulation (GR) No. 20/1970. After the POJ establishment the Jatiluhur Irrigation Board was no longer existed.

The POJ had tasks and responsibilities to maintain sustainability of water resources in the basin and extended operation and maintenance of water resources infrastructures and the hydroelectric power plant. The entity also collects the contribution from the beneficiaries of water services for running the operation and maintenance of the system. In the year 1999 the name of the entity was changed to Jasa Tirta II Public Corporation (PJT 2) with the tasks and responsibilities remain the same. The summary of the historical development of the PJT II is shown in **Table 1**.

Table 1 Historical Development of the PJT II

Name of the organization	Period	Tasks
Jatiluhur Multipurpose Project	Construction Period (1956 -1967)	To construct and develop the Jatiluhur dam, its reservoir and hydroelectric power generation including the irrigation infrastructures downstream of the dam
• Jatiluhur State-own Company	Operation and Maintenance Period (1967-1970)	To manage the Jatiluhur dam and its reservoir especially the hydroelectric power generation

<ul style="list-style-type: none"> • Jatiluhur Tertiary Irrigation Project • Jatiluhur Irrigation Project • West Java Public Works Service Unit 	(1967-1970)	To manage the Jatiluhur irrigation area and other water resources infrastructures downstream of the dam after the completion of the Jatiluhur Multipurpose Project
Jatiluhur Authority Public Corporation	Operation and Maintenance Period Based on GR: <ul style="list-style-type: none"> • No. 20/1970, May 23rd, 1970 • No. 35/1980, October 13th, 1980 • No. 42/1990, August 23rd, 1990 	Incorporates the company purposes for profit making besides the social tasks of managing the water resources supply system downstream of the dam.
Jasa Tirta II Public Corporation	Operation and Maintenance Period Based on GR: No. 94/1999, October 13th, 1999	Managing water resources in the Citarum river basin based on the integrated water resources management principles.

b) Purposes and roles of the organization

Based on the GR No. 94 in the year of 1999, the PJT II has tasks and responsibilities at the Citarum river basin on:

- Operation and maintenance of the water resources infrastructures and hydroelectric power plants,
- To carry on business on water resources and hydroelectric power generation,
- To conduct the river basin management, i.e., conservation, development, and utilization of the water resources,
- To do the rehabilitation on the water resources infrastructures and hydroelectric power plants.

(4) Outline of the organization

1) Number of staff

Per 31st of December 2007, 1,522 employees, which classified by education as presented in **Table 2**:

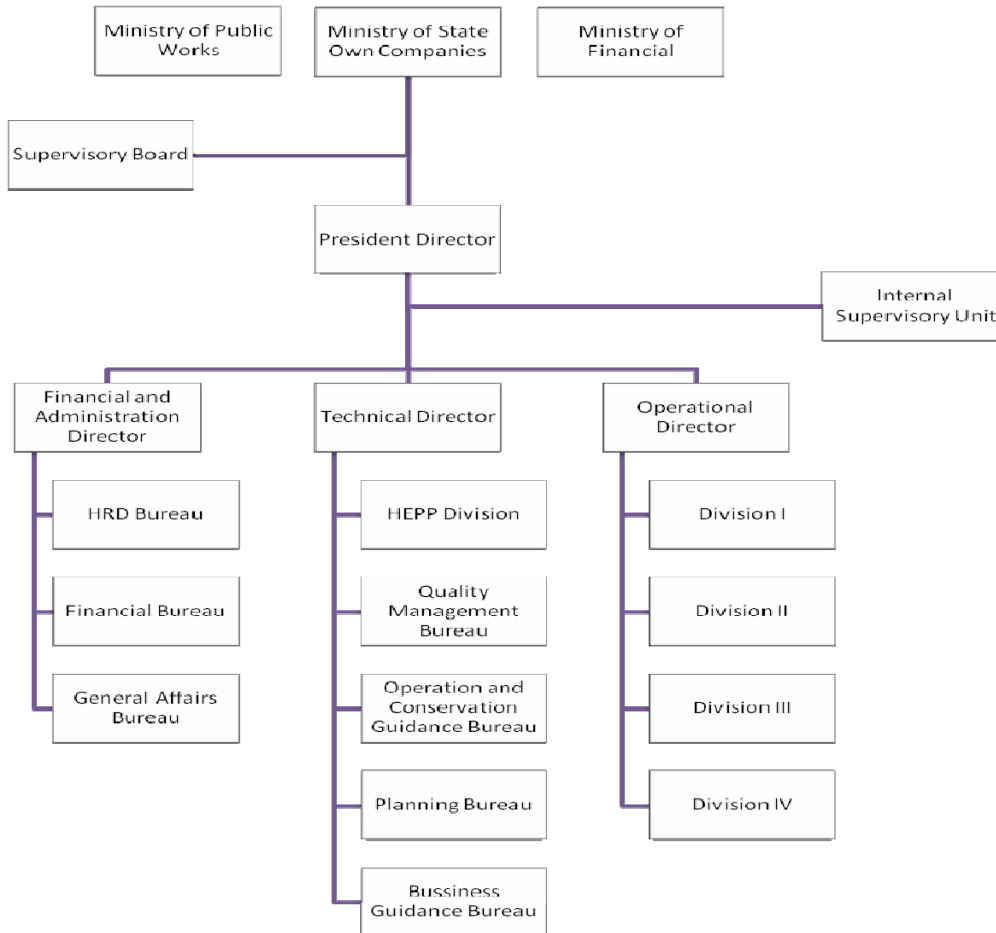
Table 2 Composition of Human Resources Classified by Education

Education Level	Number of staffs
1. Post Graduate (master degree)	24
2. Undergraduate (bachelor degree)	185
3. Higher Education School	130
4. Senior High School	397
5. Junior High School	284
6. Elementary School	502
TOTAL	1,522

2) Amount of the annual budget in 2007

Total annual budget of PJT 2 in 2007 was Rp. 209,483.19 million equal to USD 22.77 million.

3) Organizational chart



4) Ongoing projects

Most activities done by PJT II in the Citarum River Basin are routine and operational projects, such as rehabilitation of the water resources infrastructures (rising canal embankment, intake gate for irrigation area, canal, etc), installation of flow meter for industrial intakes, rehabilitation of hydro-electric power plants (modification of cooler system for Curug mini hydro electric power plant, rehabilitation of heat exchanger, kWh meter, protection relay), rehabilitation of dewatering pump for tailrace conduits of Jatiluhur Dam, etc.

(5) Main events in 2007

- a. Rehabilitation of Ir. H. Djuanda Hydro-electric Power Plants, particularly repairing and modifying the transformers.
- b. Improvement of water quality monitoring system.

2. About NARBO activity

(1) The contact person and organization's web-site

1) The name, position, phone & fax number, e-mail address of the contact person

Name : Herman Idrus, CES
Contact number : +62 264 201972 ext 205
Mobile phone : +62 811 837964
Email address : litbang@jasatirta2.co.id

2) The organization's web-site URL (English and local language respectively)

Website : www.jasatirta2.co.id
URL : <http://jasatirta2.co.id>

(2) Activities your organization implemented in 2007 as the member

- a. As participant on the Thematic Workshop of Water Right and Water Allocation, 23-26 Jan, 2007 in Japan.
- b. Attending the Thematic Workshop on Water Right, 29-31 May, 2007.
- c. Institutional Capacity Building on water quality management system, collaboration of PJT2 with K water on Pilot and Demonstration Activity: Development of a Water Quality Management System for the West Tarum Canal, May 2007 in Korea.
- d. Exchange of Personnel on Twinning Program of NARBO Indonesia and Japan Water Association, July 2007 in Japan.
- e. Staff Capacity Building on Water Quality Management System as part of the collaboration of PJT2 and K water on Pilot and Demonstration Activity: Development of a Water Quality Management System for the West Tarum Canal. PJT2 sent 6 (six) operational staffs to K Water in July 2007 in Korea.
- f. Collaboration between PJT2 and K Water on Pilot and Demonstration Activity of Development of a Water Quality Management System for the West Tarum Canal supported by Asian Development Bank, Nov 2006 – Dec 2007.
- g. As participant on the Thematic Workshop on Water-related Disaster and its Management in Asian Countries, 12-16 November 2007 in Yogyakarta-Indonesia.

Summary of PDA – WQMS Project, collaboration with K Water

Pilot and Demonstration Activity (PDA): Development of Water Quality Management System (WQMS) for the West Tarum Canal in the Citarum River Basin is the collaboration project between Korea Water Resources Corporation (K Water) and Jasa Tirta II Public Corporation that was supported by the Asian Development Bank.

The project was to pilot an approach that address the issues of adequate database development through systematic monitoring of water quality and the development of a system to support better water quality management (WQM) in the context of IWRM, and to demonstrate the activities that need to be developed in order to have better WQM, focusing on the West Tarum Canal.

The project consisted of:

- WQ Monitoring: Design water quality monitoring network and Conduct monitoring to build up water quality database
- WQ Modeling: Develop a water quality modeling system and Model calibration and application (scenarios development)
- Capacity Building: Increase capability of technical staffs of PJT II with learning by doing and Institutional capacity building in water quality management system
- Stakeholder Meeting: To disseminate information in order to synchronize the program, raising awareness and participation from the stakeholders

(3) Resolutions and expectations for NARBO activities in 2008

1) Your organization's resolutions

Human resource is one the important assets to be maintained and highly contributes to the implementation of IWRM. Strengthening the capacity and effectiveness through regular training both of external and internal are helping to achieve the goal of NARBO.

2) Expectations of NARBO activities

To promote the close relationship among the NARBO members, the capacity building for the young engineers of NARBO members is expected, such as by establishing Young Scientist Program or similar program that combines between practical exercises and lesson learned from existing institutions on water quality management, wastewater treatment plant operation, multiple reservoirs operation, simultaneously with attending exhibitions to get acquainted with industries related to water technologies. To create closer relationship among the participants can be done by group exercises and making individual presentations.

3. Questions to RBO members

- (1) Areas which your organization has improved the performance in 2007

Water quality monitoring system has improved after conducting the pilot and demonstration activity of water quality management system for the West Tarum Canal. The activities will be continued by applying the similar scheme to the whole basins and deepened into the local basin with detail implementations.

- (2) The way in which your organization was able to do so

Through regular training related to water quality monitoring, and also through learning by doing will enhance the staff's capabilities on water quality monitoring and modeling, and the staffs will be able to identify and react properly if there is alert on water quality in the rivers or canals.

- (3) In what way NARBO has helped your organization

NARBO provided technical and financial supports by means of trainings which will be beneficial to strengthened institutional capacity. NARBO also linked the network of our organization to financial providers and through grant realized the practical exercises on water quality management activities.