

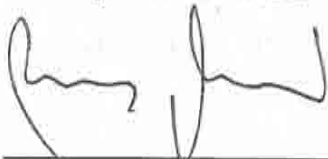
**SCOPE OF WORK**  
**FOR**  
**THE STUDY ON REGIONAL WATER SUPPLY DEVELOPMENT PLAN**  
**FOR GREATER YOGYAKARTA**  
**IN**  
**THE REPUBLIC OF INDONESIA**

**AGREED UPON BETWEEN**  
**THE MINISTRY OF PUBLIC WORKS**  
**AND**  
**THE GOVERNMENT OF SPECIAL PROVINCE OF YOGYAKARTA**  
**AND**  
**THE JAPAN INTERNATIONAL COOPERATION AGENCY**

**Jakarta, July 11 , 2006**



**Ir. Agoes Widjanarko, MIP**  
**Director General**  
**Directorate General of Human Settlements**  
**Ministry of Public Works**



**Mr. Bambang S Priyohadi**  
**Regional Secretary**  
**The Province of Special Region of**  
**Yogyakarta**



**Mr. OMURA, Yoshiki**  
**Leader**  
**Preparatory Study Team**  
**Japan International Cooperation**  
**Agency**

## I INTRODUCTION

In response to the official request of the Government of Republic of Indonesia (hereinafter referred to as "the Government of Indonesia"), the Government of Japan decided to conduct technical cooperation on the Study on Regional Water Supply Development Plan for Greater Yogyakarta "(hereinafter referred to as "the Study") through the Japan International Cooperation Agency (hereinafter referred to as "JICA").

From June 28<sup>th</sup> to July 17<sup>th</sup> 2006, JICA has dispatched the preparatory study team to Indonesia (hereinafter referred to as "the Study Team") and signed on the minutes of meeting on the Scope of Work for the Study on July 11<sup>th</sup> 2006.

Accordingly, JICA, the official agency responsible for the implementation of the technical cooperation projects of the Government of Japan, will undertake the Study in close cooperation with the authorities concerned of the Government of Indonesia.

On the parts of the Government of Indonesia, Ministry of Public Works and Yogyakarta Special Province, shall act as the counterpart agencies to the Japanese team for the Study (hereinafter referred to as "the JICA study team") and also as the coordinating body in relation to other governmental and non-governmental organizations concerned for the smooth implementation of the Study.

The present document sets forth the Scope of Work with regard to the Study and will be valid after the notification of approval by JICA headquarters through JICA Indonesia office to the Indonesian side.

## II OBJECTIVES OF THE STUDY

The objectives of the Study are:

1. to prepare a Master Plan on Regional Water Supply Development Project in Greater Yogyakarta (Yogyakarta Municipality, Sleman Regency and Bantul Regency) with a target year 2020
2. to prepare an Action Plan for the institutional strengthening for the water supply services in Greater Yogyakarta
3. to carry out capacity building of counterparts through the participation in the Study

## III STUDY AREA

The Study area covers Yogyakarta Municipality, Sleman Regency and Bantul Regency as shown in Annex 1.

## IV SCOPE OF THE STUDY

The Study shall be divided into three (3) phases:

### 1. Phase-I (Formulation of Policy and Strategy)

- (1) To implement pilot projects as urgent countermeasures for the water supply facilities damaged by the earthquake happened in Yogyakarta Special Province in May 2006 as follows:
  - 1) Rehabilitation works of water supply facilities of PDAMs of Yogyakarta Municipality, Bantul Regency and Sleman Regency

(2)

- 2) Rehabilitation works of community water supply system in Yogyakarta Municipality, Bantul Regency and Sleman Regency
- (2) To collect the available data and information, such as
    - regional development plan
    - city planning and land use
    - water resources development and management plan
    - public health improvement plan
    - the bulk water supply project, for which Yogyakarta Special Province has DBOT agreement signed on January 15, 2005
  - (3) To carry out inventory survey on the existing water supply facilities
  - (4) To conduct necessary field surveys
    - socio-economic survey (water usage, willingness to pay etc )
    - water quality test
    - investigation of non revenue water
    - fluctuation of water flow volume
    - other necessary surveys
  - (5) To evaluate the current institutional, financial and operational aspects of water supply systems (including PDAMs and community water supply systems)
  - (6) To formulate development concept and strategies to improve the water supply situation in urban and rural areas in Greater Yogyakarta

## 2. Phase-II (Formulation of Master Plan)

- (1) Water demand forecasting
- (2) Development plan of water source for water supply
- (3) Water quality improvement plan in urban and rural area
- (4) Improvement and extension plan of water supply facilities,
  - a) optimum distribution of water in Yogyakarta municipality and its surrounding areas (necessary reservoirs and distribution network etc)
  - b) existing facilities of PDAMs
  - c) community water supply systems in rural areas
- (5) Institutional development plan
  - a) regulating and monitoring system of the bulk water supply
  - b) capacity development plan of PDAMs in terms of financial and technical aspects( for example reduction of non revenue water, water tariff collection, etc)
  - c) capacity development plan of local governments in evaluation and management of water supply sector including private partnership
- (6) Formulation of an implementation plan (including the selection of priority projects)
- (7) Cost Estimation
- (8) Project evaluation (economic, financial, institutional, technical, social, and environmental)
- (9) Assistance in conducting Initial Environmental Examination

## Phase-III (Formulation of Action Plan)

Action plans for the improvement of water supply will be considered through pilot project. The contents of pilot projects will be proposed in the course of the formulation of Master Plan, however, the following activities could be considered as examples.

- (a) Pilot projects
    - a) leakage survey and control project
- (3)

- b) efficient water bill collection system
- c) GIS for distribution networks

(b) Feasibility study of the priority projects as long as the possibility of financial arrangement to realize the project is confirmed.

## V SCHEDULE OF THE STUDY

The Study will be carried out in accordance with the tentative schedule as attached in Annex-2.

## VI REPORTS

JICA shall prepare and submit the following reports to the Government of Indonesia.

1. Inception Report: at the commencement of the Phase-I work (This report will contain the schedule and methodology of the Study.)
  - English: Twenty (20) copies
  - Indonesian: Twenty (20) copies
2. Progress Report (1): at the end of the Phase-I work (This report will summarize the findings in of the phase I.)
  - English: Twenty (20) copies
  - Indonesian: Twenty (20) copies
3. Interim Report: at the end of the phase-II work (This report will contain the results of the phase-II work.)
  - English: Twenty (20) copies
  - Indonesian: Twenty (20) copies
4. Progress Report (2): in the middle of Phase-III work (This report will summarize the findings in the first half of the phase-II study.)
  - English: Twenty (20) copies
  - Indonesian: Twenty (20) copies
5. Draft Final Report: at the end of the study work (The Government of Indonesia shall submit its comments within one (1) month after receipt of the Draft Final Report.)
  - English: Twenty (20) copies
  - Indonesian: Twenty (20) copies
6. Final Report: with digital archive within about one (1) month after JICA's receipt of the comments on the Draft Final Report.
  - English: Twenty (20) copies
  - Indonesian: Twenty (20) copies

## VII UNDERTAKINGS OF THE GOVERNMENT OF INDONESIA

1. To facilitate the smooth conduct of the Study, the Government of Indonesia shall take necessary measures:

(1) To permit the members of the JICA study team to enter, leave and sojourn in the Indonesia for the duration of their assignment therein, and exempt them from foreign registration requirements and consular fees,

(2) To exempt the members of the JICA study team from taxes, duties, fees and any other charges on equipments, machinery and other materials brought into and out the Indonesia for the implementation of the Study,

(3) To exempt the members of the JICA study team from income taxes and charges of any kind imposed on or in connection with any emoluments or allowances paid to the members of the JICA study team for their services in connection with the implementation of the Study,

(4) To provide necessary facilities to the JICA study team for the remittances as well as the utilization of the funds introduced into the Indonesia from Japan in connection with the implementation of the Study,

2. The government of Indonesia shall bear claims, if any arise, against the members of the JICA study team resulting from, occurring in the course of, or otherwise connected with, the discharge of their duties in the implementation of the Study, except when such claims arise from gross negligence or willful misconduct on the part of the members of the JICA study team.

3. Ministry of Public Works and Yogyakarta Special Province shall, at its own expense, provide the JICA study team with the following, in cooperation with other organizations concerned:

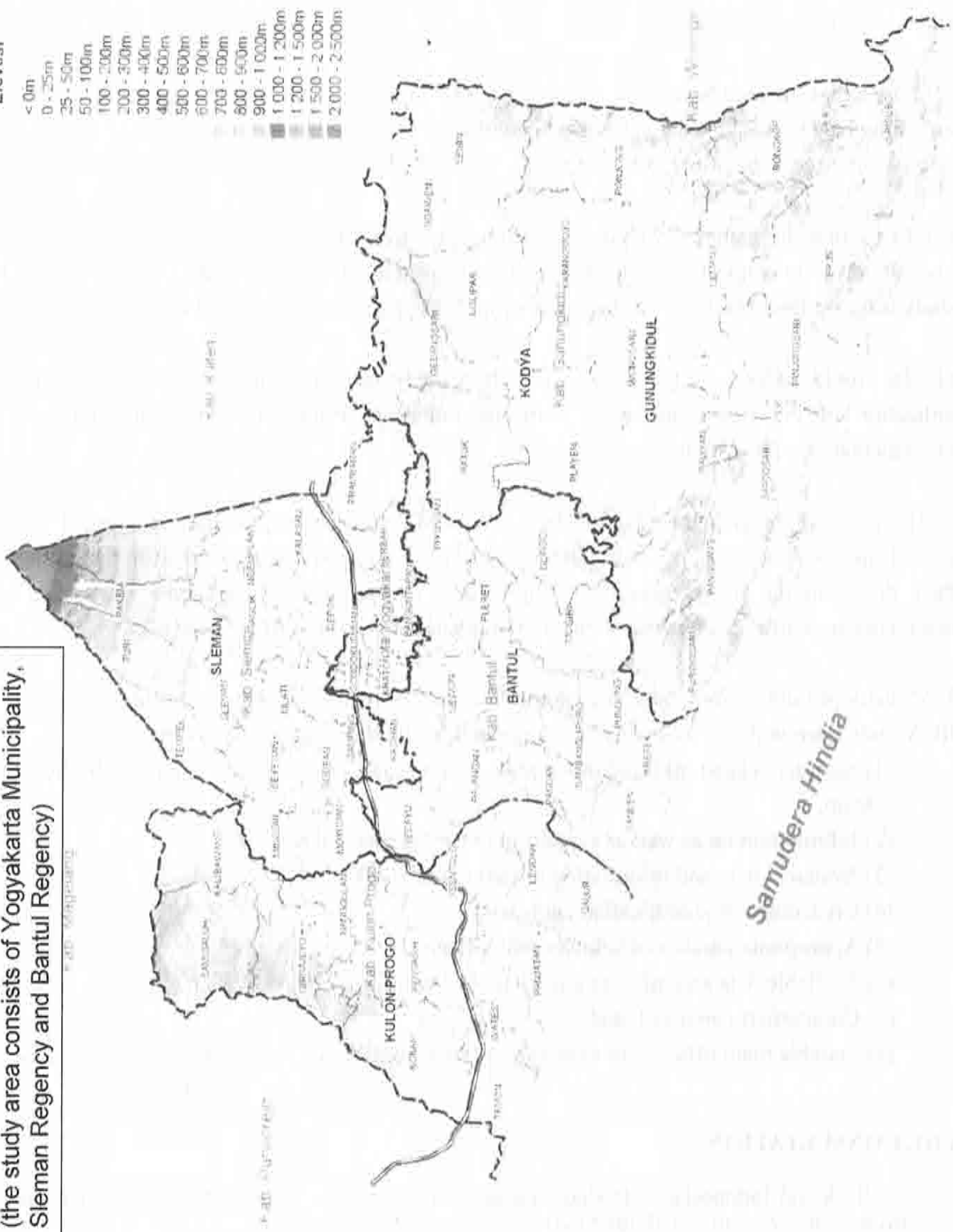
- (1) Security-related information on as well as measures to ensure the safety of the JICA study team,
- (2) Information on as well as support in obtaining medical service,
- (3) Available data and information related to the Study,
- (4) Credentials or identification cards, and
- (5) Appropriate number of vehicles with drivers
- (6) Available data and information related to the Study,
- (7) Counterpart personnel, and
- (8) Suitable main office with necessary office equipment in Yogyakarta Special Province

## VIII. CONSULTATION

JICA and Indonesian side shall consult with each other in respect of any matter that may arise from or in connection with the Study.

**Annex-1 Study Area**

(the study area consists of Yogyakarta Municipality, Sleman Regency and Bantul Regency)



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Annex-2 Tentative Schedule of the Study

Tentative Schedule

Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Phase	Phase I					Phase II					Phase III							
Work Schedule																		
Report	▲ IC/R					▲ RRI						▲ IT/R			▲ PR2		▲ DF/R	▲ F/R

NOTE

- IC/R: Inception Report
- PR1: Progress Report (1)
- IT/R: Interim Report
- PR2: Progress Report (2)
- DF/R: Draft Final Report
- F/R: Final Report

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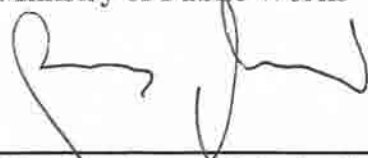
MINUTES OF MEETING  
FOR  
THE STUDY ON REGIONAL WATER SUPPLY DEVELOPMENT PLAN  
FOR GREATER YOGYAKARTA  
IN  
THE REPUBLIC OF INDONESIA  
AGREED UPON BETWEEN  
THE MINISTRY OF PUBLIC WORKS  
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THE JAPAN INTERNATIONAL COOPERATION AGENCY

Jakarta, July 11, 2006



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Ir. Agoes Widjanarko, MIP  
Director General  
Directorate General of Human  
Settlements  
Ministry of Public Works



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Mr. Bambang S Priyohadi  
Regional Secretary  
The Province of Special Region of  
Yogyakarta



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Mr. OMURA, Yoshiki  
Leader  
Preparatory Study Team  
Japan International Cooperation  
Agency

In response to the official request of development studies of the Government of Indonesia, the Japan International Cooperation Agency (hereinafter referred to as "JICA") dispatched the preparatory study team, headed by Mr. Omura Yoshiki (hereinafter referred to as "the Study Team"), to Indonesia from June 28<sup>th</sup> to July 17<sup>th</sup>, 2006 to discuss the Scope of Works (hereinafter referred to as "S/W") for the Study on Regional Water Supply Development Plan for Greater Yogyakarta (hereinafter referred to as "the Study").

During its stay in Indonesia, the Study Team carried out field surveys in the study areas, and held a series of discussions with the Ministry of Public Works, Yogyakarta Special Province (hereinafter referred to as "DIY"), Yogyakarta Municipality, Regencies of Bantul and Sleman, Perusahaan Daerah Air Minum (hereinafter referred to as "PDAM"s) of Yogyakarta and Bantul and Sleman and other authorities concerned. The list of those whom the Study Team met with is shown in Appendix 1.

The minutes of meeting have been prepared for the better understanding of the S/W agreed upon between Ministry of Public Works and Yogyakarta Special Province, Yogyakarta Municipality, Regencies of Bantul and Sleman and the Study Team.

The main items that were discussed and agreed by both sides are summarized as follows.

### **1 Countermeasure for the urgent needs**

JICA will make best efforts in the Study to support for the countermeasure for the urgent needs caused by the earthquake.

In the Phase I of the Study, JICA will implement, as part of pilot project(s), restoration works for water supply facilities of PDAMs and community water supply systems in the Study area. JICA will select the candidate sites and components taking into considerations of the following criteria.

- 1) Priority of Indonesian side
- 2) Urgency
- 3) Effectiveness
- 4) Clear demarcation with Donors' or NGO's activities
- 5) Project output can be fed back to planning process of the Master Plan

### **2 Institutional arrangement to conduct the Study**

JICA emphasized that close coordination is the key to the Study, which involves one province, one municipality, two regencies and three PDAMs.

The Study Team requested that the Indonesian side should establish a steering committee and a technical committee to implement the Study effectively because there are many stakeholders involved in the Study.

Indonesian side agreed to prepare to establish the steering committee and the technical committee before the commencement of the Study.

JICA suggested member of each committee as following.

- 1) the steering committee composed of representatives from the following organizations:
  - Central government
  - Provincial government
  - Municipal government
  - Regency government
- 2) the technical committee composed of representatives from the following organizations:
  - Ministry of Public Works (Directorate General of Human Settlement & Infrastructure)
  - DIY (BAPEDA, Regional Human Settlement & Infrastructure)

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- Yogyakarta Municipality (BAPEDA, Office of Human Settlement & Infrastructure)
- Regency of Bantul (BAPEDA, Office of Public Works)
- Regency of Sleman (BAPEDA, Office of Human Settlement, Infrastructure & Transportation)
- PDAM Tirta Marta of Yogyakarta City, PDAM of Sleman Regency and PDAM of Bantul Regency
- Other related organizations

### 3 Capacity building

Both sides emphasized the importance of capacity building in the process of the Study to facilitate the human resource development of DIY, Yogyakarta Municipality, Regencies of Bantul and Sleman and PDAMs of Yogyakarta, Bantul and Sleman.

### 4 Coordination with other related projects

DIY requested to make the Master Plan in consistence with the bulk water supply project, for which Yogyakarta Special Province has DBOT agreement signed on January 15, 2005. DIY informed that the bulk water supply project was currently suspended because of incapacity of distribution systems to absorb the bulk water.

JICA will consider, as given conditions for the Master Plan, the quality and quantity of the bulk water and its delivery points, which shall be reservoirs in Yogyakarta Municipality and Regencies of Bantul and Sleman.

JICA requested and DIY agreed to keep JICA informed of the bulk water supply project in order to implement the study work effectively.

### 5 Undertaking of the Government of Indonesia

JICA will send a study team (hereinafter referred as "JICA study team") to implement the Study. Both side confirmed the following matters.

- 1) As to VII. (1) of S/W, the Study Team requested DIY to take necessary procedures to permit the JICA study team to take available data abroad (including maps and photographs) and information related to the Study. DIY notified that they would provide convenience to the JICA study team as much as possible.
- 2) As to VII. (2) of S/W, the Study Team requested DIY that counterpart personnel of the Study should be selected before the commencement of the Study for ensuring better cooperation, to which DIY agreed.
- 3) As to VII. (3) of S/W, DIY agreed that the office space with office furniture and electricity would be provided in Yogyakarta for the use of the JICA study team, provided that telephone charges will be borne by the JICA study team.
- 4) As to VII. (3) of S/W, DIY requested the Study Team to provide transportation for the JICA study team at JICA's own expense. The Study Team agreed to convey this request to JICA H.Q. for the positive consideration.

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## Appendices I

**1. MINISTRY OF PUBLIC WORKS**

- Ir. Agoes Widjanarko, MIP, Director General of CIPTA KARYA  
 Ir. Pudjastanto S, CES, DEA, Director for Drinking Water Development  
 Ir. Djoko Murjanto, MSC, Director of Planning and Programming  
 Ir. Amiruddin CES, Sub-director for Regional I, Directorate for Drinking Water Development  
 Ir. Bambang Purwanto, MSC, Sub-director for Maintenance & Effort, Drinking Water Development

**2. YOGYAKARTA SPECIAL REGION**

- K.G.P.A.A. Paku Alam IX, Vice Governor  
 Ir. Bambang S. Priyohadi MPA, Regional Secretary  
 Drs. Sudaryomo Hartosudarmo, Head of Bureau of Cooperation, Regional Secretariat  
 Ir. Bayudono M.Sc, Head of Bapeda Province  
 Ir. Edi Siswanto, Head of Regional Planning Division  
 Ir. Sangidu Umar, MT, Head of Spatial and Environmental Planning, Sub Division of Bapeda  
 Ir. Nur Indah P, Head of Foreign Cooperation Section, Bureau of Cooperation

**DINAS KIMPRASWIL**

- Ir. Tri Harjun Ismaji M.Sc, Head of Dinas KIMPRASWIL Province  
 Ir. M. Natsir Basuki MM, Head of CIPTA KARYA  
 Ir. Gatot Saptadi, Head of Planning and Program Section  
 Ir. Djendra, Head of Bina Program Division  
 Ir. Frisky Kusuma, Head of Housing and Settlement Section  
 Ir. Hardjono Sudjanadi MM, Head of Drinking Water and Sewer Development Project  
 Drs. Purnomo Dwi Ariyanto, BE, MM, Secretary of Private Cooperation, Yogyakarta Water Supply Sector Project

**3. YOGYAKARTA MUNICIPALITY**

- Drs. Tri Djoko Susanto, Head of Bappeda  
 Ir. Suhadi, Staff of Bappeda  
 Endro Wibisono, ST, Head of Implementation Division, Dinas KIMPRASWIL

#### **4. BANTUL REGENCY**

Ir. Supriyanto Widodo, Head of Bappeda

Ir. Wahid, Head of Infrastructure Section of Bappeda

Ir. Sudaryono, Head of Housing and Settlement Section, Dinas Public Work

#### **5. SLEMAN REGENCY**

Drs. Paulus Suyanto, Head of Bappeda

Ir. Rusdiyanto, Head of Village Planning Sub-Division, BAPPEDA

Ir. Yuni Zaffria, Head of Human Settlement, Infrastructure, and Transportation

Ir. Indra D, Head of CIPTA KARYA

Mirza Anfansury ST,MT, Dinas KIMPRASWILHUB

#### **6. PDAM**

Dachron Saleh SH, Chief Executive Officer of PDAM Tirta Marta Kota Yogyakarta

Agus Triwidodo ST, Technical Director of PDAM Tirta Marta Kota Yogyakarta

Kasno Sutjipto ST, Head of Production of PDAM Tirta Marta Kota Yogyakarta

Ir. Suratno, Chief Executive Officer, PDAM Kabupaten Sleman

Ir. Achadi M.Si, Technical Director, PDAM Kabupaten Sleman

Drs. Dwi Nurwata, Internal Auditor, PDAM Kabupaten Sleman

Ir. Agung Darmadi, Technical Director of PDAM Kabupaten Bantul

Drs. Yudi Indarto M.Si, Administrator Director of PDAM Kabupaten Bantul

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